(V) PIONEER

Service Manual

DEH-P705/UC



ORDER NO. CRT1553

MULTI-CD CONTROL HIGH POWER CD PLAYER WITH FM/AM TUNER

DEH-P705 ... DEH-P65 ... DEH-P605 ... DEH-P703 ...

MULTI-CD CONTROL HIGH POWER CD PLAYER WITH RDS TUNER

DEH-P705RDS

EW.XIB/EW

● See the service manual DEH-M980(CRT1450) for the CD mechanism description and circuit description.

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CHAPTER 1

●CD Player Service Precautions

- For pickup unit(CGY1026) handling, please refer to "Disassembly" (Fig. 10). During replacement, handling precautions shall be taken to prevent an electrostatic discharge (protection by a short pin).
- During disassembly, be sure to turn the power off since an internal IC might be destroyed when a connector is plugged or unplugged.

SAFETY INFORMATION (UC MODEL)

CAUTION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely; you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

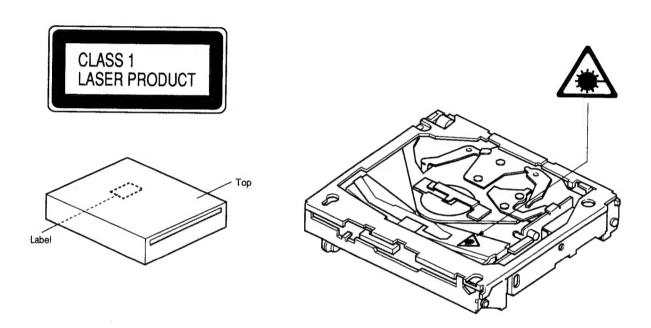
Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health & Safety Code, Section 25249.5). When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

SAFETY INFORMATION (EW MODEL)

- 1. Safety Precautions for those who Service this Unit.
- Follow the adjustment steps (see pages 1-29 through 1-40)in the service manual when servicing this unit. When
 checking or adjusting the emitting power of the laser diode exercise caution in order to get safe, reliable results.

Caution:

- 1. During repair or tests, minimum distance of 13cm from the focus lens must be kept.
- 2. During repair or tests, do not view laser beam for 10 seconds or longer.
- 2. A "CLASS 1 LASER PRODUCT" label is affixed to the rear of the player.
- 3. The triangular label is attached to the mechanism unit frame.



4. Specifications of Laser Diode

Specifications of laser radiation fields to which human access is possible during service.

Wavelength = 7

= 785 nanometers

Radiant power =

69.7 microwatts(Through a circular aperture stop having a diameter of 80 millimeters)
0.55 microwatts(Through a circular aperture stop having a diameter of 7 millimeters)

1. SPECIFICATIONS

●DEH-P705/UC,DEH-P605/UC

Specifications

General	
Power source	4.4 V DC (10.8 — 15.6 V allowable)
Grounding system	Negative type
Max current consumption	10.0 A
Dimensions (chassis)	178 (W) × 50 (H) × 155 (D) mm
Differisions (Chassis)	$(7 \text{ (W)} \times 2 \text{ (H)} \times 6\text{-}1/8 \text{ (D) in.}]$
(170 (W) × 48 (H) × 15 (D) mm
(nose)	[6-3/4 (W) × 1-7/8 (H) × 5/8 (D) in.]
	(6-3/4 (VV) × 1-7/6 (П) × 5/6 (D) III.)
Weight	1.5 kg (3.3 lbs)
Amplifier	
Continuous power output is 14	W per channel min. into 4 ohms,
both channels driven 50 to 15.0	000 Hz with no more than 5% THD.
May power output	30 W × 4 (EIAJ)
Load impedance	4Ω (4 — 8Ω allowable)
Predut output level/	500 mV/1 kΩ
Tone controls (bass)	±12 dB (100 Hz)
(middle)	±12 dB (1 kHz)
(troble)	±12 dB (10 kHz)
(Heble)	+10 dB (100 Hz), +6.5 dB (10 kHz)
Loudness contour	(volume: -30 dB)
	(volume, -30 db)

●DEH-P65/UC

Specifications

General Power source 14.4 V DC (10.8 — 15.6 V allowable) Grounding system Negative type Max. current consumption 10.0 A Dimensions (chassis) 178 (W) × 50 (H) × 155 (D) mm [7 (W) × 2 (H) × 6-1/8 (D) in. (nose) 170 (W) × 48 (H) × 15 (D) mm [6-3/4 (W) × 1-7/8 (H) × 5/8 (D) in.	1 1 1
Weight	,
$ \begin{array}{llllllllllllllllllllllllllllllllllll$. () () () () () ()

CD player System
FM tuner Frequency range
AM tuner Frequency range

These specifications were determined and are presented in accordance with specification standards established by the Ad Hoc Committee of Car Stereo Manufacturers.

Note:

Specifications and the design are subject to possible modification without notice due to improvements.

CD player	
System	Compact disc audio system
Usable discs	Compact disc
Signal format	Sampling frequency: 4.1 kHz
Num	nber of quantization bits: 16 line ar
Frequency characteristics	5 — 20,000 Hz ±1 d B)
Signal-to-noise ratio	94 dB (1 kHz) (IHF-A nitwork)
Dynamic range	90 dB(1 kHz)

Frequency characteristics. 5 − 20,000 Hz ±1 d B) Signal-to-noise ratio 94 dB (1 kHz) (IHF-A nitwo rk) Dynamic range. 90 dB(1 kHz) Number of channels 2 ktereo) FM tuner 87.9 − 1079 M Hz

Frequency range	87.9 — 107.9 M Hz
Usable sensitivity 11 dBf (1.0μV/75Ω, mono, S/N:30 d B)
50 dB quieting sensitivity	
Signal-to-noise ratio	70 dB (IHF-A nitwork)
Distortion	0.3% (at 65 dBf, 1 kHz,stereo)
Frequency response	30 — 15,000 Hz ±3 d B)
Stereo separation	40 dB (at 65 dB 1 kHz)
Selectivity	70 dB (2ACA) (±4)0 kHz)
Three-signal intermodulation (desire	signal level)

AM tuner	
Frequency range	530 — 1,110 k Hz
Usable sensitivity	. 18µV (25 dB) (S/N:20 d■B)
Selectivity	50 dB (± 0 kHz)

These specifications were determined and are presented in accordance with specification standards established by the Ad Hoc Committee of Car Stereo Manufacturers.

Note:

Specifications and the design are subject to possible modicati on without notice due to improvements.

●DEH-P703/ES

Specifications

General	
Power source 14.4 V DC (10.8 — 15.6	V allowable)
Grounding system	legative type
Max. current consumption	10.0 A
Dimensions	
(DIN) (mounting size)	k 150 (D) mm
(nose) 188 (W) × 58 (H)	× 20 (D) mm
(D) (mounting size)	(155 (D) mm
(nose) 170 (W) × 48 (H)	× 15 (D) mm
Weight	1.5 kg
	kg
Amplifier	
Continuous power output is 14 W per channel min. is	nto 4 ohms,
both channels driven 50 to 15,000 Hz with no more th	ran 5% THD.
Max. power output30	W×4 (EIAJ)
Continuous power output	14 W×4
(1%)	diet at 1 bU-1
Load impedance	Ω allowable)
Preout output level/	
output impedance	$500 \mathrm{mV/1 k\Omega}$
Tone controls (bass)±12	dB (100 Hz)
(middle)	12 dB (1 kHz)
(treble)±12	2 dB (10 kHz)
Loudness contour+10 dB (100 Hz), +6.5	dB (10 kHz)
(volu	me: -30 dB)

CD player
SystemCompact disc audio system
Osable discs
Signal format Sampling frequency: 44.1 kHz
Number of quantization hite: 16: linear
Frequency characteristics
Signal-to-noise ratio
Dynamic range
Number of channels
FM tuner
Frequency range
Usable sensitivity 11 dBf (1.0μV/75Ω, mono, S/N: 30 dB)
by db quieting sensitivity 16 dBf (1.7uV/750 mono)
Signal-to-noise ratio
Distortion
rrequency response
Stereo separation
Selectivity 70 dB (2ACA) (+400 kHz)
Infee-signal intermodulation (desire signal level)
50 dBf (two undesire signal level: 110 dBf)
•
AM tuner
Frequency range531 — 1,602 kHz (9 kHz)
530 — 1,710 kHz (10 kHz)
Usable sensitivity
Selectivity 50 dB (S/N: 20 dB)
Selectivity
50 dB (±10 kHz)

Note

Specifications and the design are subject to possible modification without notice due to improvements.

●DEH-P705RDS/EW

Specifications

OC (10.8 15.6 V allowable)
Negative type
10.0 A
$^{\prime}8 \text{ (W)} \times 50 \text{ (H)} \times 150 \text{ (D)} \text{ mm}$
88 (W) × 58 (H) × 20 (D) mm
1.5 kg
30 W × 4 (EIAJ)
20 W × 4
(DIN 45324, +B=14.4 V)
\dots 4 Ω (4 — 8 Ω allowable)
····· 500 mV/1 kΩ
±12 dB (100 Hz)
±12 dB (1 kHz)
±12 dB (10 kHz)
B (100 Hz), +6.5 dB (10 kHz)
(volume: –30 dB)

CD player
System
Signal formatSampling frequency: 44.1 kHz Number of quantization bits: 16: linear
Frequency characteristics
Signal-to-noise ratio
Dynamic range
Number of channels
FM tuner
Frequency range
Usable sensitivity11 dBf (1.0μV/75Ω, mono, S/N: 30 dB)
50 db quieting sensitivity 16 dBf (1.7µV/750, mono)
Signal-to-noise ratio
Distortion
Frequency response
Stereo separation
MW tuner
Frequency range
Usable sensitivity
Selectivity
LW tuner
Frequency range 153 — 281 kHz
Usable sensitivity30µV (30 dB) (S/N: 20 dB)
Selectivity 50 dB (±9 kHz)

Note

Specifications and the design are subject to possible modification without notice due to improvements.

2. OPERATION AND CONNECTION

Precautions

CAUTION:USE OF CONTROL OR AD-JUSTMENT OR PERFOR-MANCE OF PROCEDURES OTHER THAN THOSE SPECI-FIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE

EXPOSURE.
CAUTION:THE USE OF OPTICAL INSTRUMENTS WITH THIS
PRODUCT WILL INCREASE
EYE HAZARD.

Note:

· Do not disassemble the unit.

In case of trouble

When the unit does not operate properly, contact your dealer or the nearest authorized PIONEER Service Station. In the United States please call 1-800-421-1404 for product information or your nearest service center or 1-800-228-7221 for information on parts.

Important

The serial number of this device is located on the bottom of the unit. For your own security and convenience, be sure to record this number on the enclosed warranty card.

Connecting the Units

Note:

- This unit is for vehicles with a 12-volt battery and negative grounding. Before installing it in a recreational vehicle, truck, or bus, check the battery voltage.
- To avoid shorts in the electrical system, be sure to disconnect the battery

 cable before beginning installation.
- After completing installation and wiring, double check that there are no mistakes.
 Re-install any parts removed from the car during installation, then connect the battery negative terminal.
- Refer to the owner's manual for details on connecting the various cords of the power amp and other units, them make connections correctly.
- Secure the wiring with cable clamps or adhesive tape. To protect the wiring, wrap adhesive tape around them where they lie against metal parts.
- Route and secure all wiring so it cannot touch any moving parts, such as the gear shift, handbrake, and seat rails. Do not route wiring in places that get hot, such as near the heater outlet. If the insulation of the wiring melts or gets torn, there is a danger of the wiring short-circuiting to the vehicle body.

- Don't pass the orange lead through a hole into the engine compartment to connect to the battery. This will damage the lead insulation and cause a very dangerous short.
- Do not shorten any leads. If you do, the protection circuit may fail to work when it should.
- Never feed power to other equipment by cutting the insulation of the power supply lead of the unit and tapping into the lead. The current capacity of the lead will be exceeded, causing over heating.
- When replacing fuses, be sure to use only fuses of the rating prescribed on the fuse holder.
- Speakers connected to this unit must be high-power type possessing maximum input of at least 30 W and impedance of 4 to 8 ohms. Connecting speakers with output and/or impedance values other than those noted here can damage the speakers.

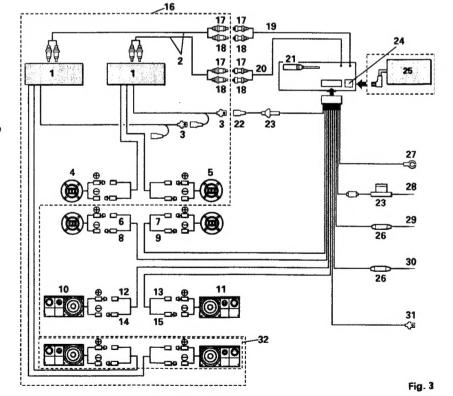
- When the power amp is being linked with this system, be sure not to connect the blue lead to the amp's power terminal. Likewise, when linking this system with the auto-antenna, do not connect to power terminal for the antenna. Such connection can make overcurrent cause malfunctions.
- When the unit is mounted in a vehicle whose ignition switch does not have the ACC (accessory) position as shown in Fig. 2, be sure to connect the red lead of the unit to the terminal controlled by the ignition switch ON/OFF position. If you do not, the vehicle battery may go flat when you leave your vehicle for several hours. (Fig. 1: ACC position/Fig. 2: No ACC position)







Fig. 2



Connection Diagram (Fig. 3)

- Power amp (sold separately)
 Connecting cords with RCA pin plugs (sold separately)
- Blue
- Front/left speaker
- Front/right speaker
- Green Green/black
- Gray/black
- 10. Rear/left speaker 12. Green/red
- 11. Rear/right speaker 13. Gray/red
- 14. Black/green
- 15. Black/gray
- 16. Connected only when the optional amplifier is used. Nothing is connected when operating the built-in amplifier itself. White 18. Red

- White
 Rear out or sub woofer out can use either as rear out or sub woofer out. To switch output, see the section "Using the Sub-woofer" in the owner's manual. (DEH-P605 has rear out only and does not switch to sub woofer out.)
 Front out (DEH-P605 does not have this terminal.)
- 21. Antenna jack 22. Blue
- - To system control terminal of the power amp or Auto-antenna relay control terminal (Max. 300 mA 12 V DC).

- 23. Fuse holder
 24. Multi-play CD player terminal
 25. Multi-play CD player (sold separately)
 A maximum of 4 multi-play CD players can be connected. For connection details, see the owner's manual for the multi-play CD player.
- 26. Fuse resistor
- Black (ground)
 To vehicle (metal) body.

- 28. Orange
 To terminal always supplied with power regardless of ignition switch position. 29. Red
- - To electric terminal controlled by ignition switch (12 V DC) ON/OFF.
- 30. Yellow
- To lighting switch terminal.
 31. Yellow/black
 Cellular Mute

- Cellular Mute
 If you use a cellular telephone, connect it via
 the Audio Mute lead on the cellular
 telephone. If not, keep the Audio Mute lead
 free of any connections.
- 32. Rear or sub woofer speaker (DEH-P605 has rear speaker only.)

Installation

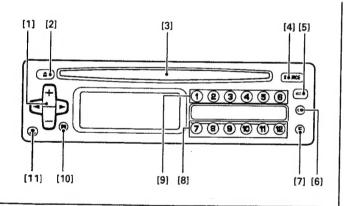
Note:

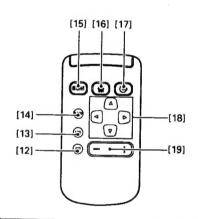
- Before finally installing the unit, connect the wiring temporarily and make sure it is all corrected up properly and the unit and the system work properly.
- Use only the parts included with the unit to ensure proper installation. The use of unauthorized parts can cause malfunctions.
- Consult with your nearest dealer if installation requires the drilling of holes or other modifications of the vehicle.
- Install the unit where it does not get in the driver's way and cannot injure the passenger if there is a sudden stop, like an emergency stop.
- If installation angle exceeds 30° from horizontal, the unit might not give its optimum performance. (Fig. 4)

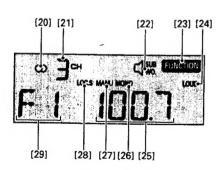


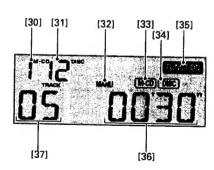
Fig. 4

 The semiconductor laser will be damaged if it overheats, so don't install the unit anywhere hot - for instance, near a heater outlet.



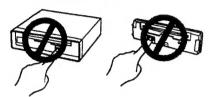






Precautions

- Do not hold the display tightly.
- Do not subject the front panel to excessive shock.
- · Do not place the front panel in high temperatures or direct sunlight.
- Do not use benzene, paint thinner, or other volatile fluids to clean the front panel.
- Do not disassemble the front panel.
- Do not touch the terminals on the front panel and unit. (If the terminals are dirty, use a clean dry cloth to clean.)



Changing the Source

Parts Identification

[4] Source [8] ⑦ AUX ON/OFF ⑧ *M-CD" display ON/OFF

Changing the Source

Each time the button [4] is pressed, the source will change in the following

Built-in CD player - Tuner - Multi-play CD player → OFF

If a multi-CD player is not connected to this unit and the source is switched to the multi-CD player position, the display shows "M-CD". This display may be cleared by carrying out the following

While holding down ® of button [8], turn the car ignition key from OFF to ON.

If there is no disc in the built-in CD player, the source will not change to "built-in CD

player".

If the multi-play CD player is not connected or if there is no magazine in the multi-play CD player, the source will not change to "multi-play CD player".

When connecting other audio equipment to the IP-BUS terminal of the main unit using the separately sold conversion cord. When listening to the audio equipment, carry out the following operations to switch to AUX mode.

1. While pressing T of button [8], turn the

ignition key from OFF to ON.

2. Switching sources allows selection of AUX mode. Therefore, press button [4] to switch to AUX mode.

Built in CD player → Tuner → Multi-play

CD player → AUX → OFF

Adjusting the Audio

Parts Identification

[1] Volume/Audio adjustment

[10] Shift/SLA

[12] Attenuator [22] Sub woofer

[24] Loudness

Mode Selection

Each press of button [10] changes the mode as follows:

Volume adjustment (VOL) → Balance adjustment (FAD/BAL) → Pre-fader (P-FAD) → Tone adjustment (BAS/MID/TRE) → Loudness adjustment (LOUD)

When you're adjusting fader, balance, Pre-fader, bass, middle or treble, the indicator will stop at the center setting. About 8 seconds after adjustment, the display returns to its previous state.

Volume Adjustment

Pressing the (+) side of button [1] increases the volume, while the (-) side decreases it. (Display shows "VOL 00" ~ "VOL 30".)

When driving your vehicle, be sure to keep the volume of the unit set low enough to allow you to hear sounds coming from outside.

Balance Adjustment

Press button [10] to select balance adjustment mode. ("FAD" appears on the display.) Adjust the fader using the (+) or (-) press either the (◄) or (►) side of button [1].

Fader

This fader controls the balance between speakers ② and speakers ③, which are shown in Figure 5.

Press the (+) side of button [1] to raise the volume of speakers ② only; press the (-) side to raise the volume of speakers ③ only.

(Display shows "FAD F9" ~ "FAD R9".) Please set "FAD 0" when using 2 speaker

system.

Note:

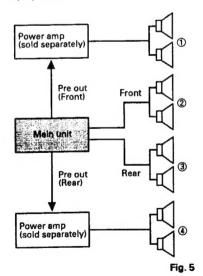
This unit has a fader that controls the balance between speakers 2 and 3, shown in Figure 5, using button [1], and a prefader that controls the balance between speakers ①, ②, ③ and speakers ④.

Pressing the (◄) side of button [1] shifts the balance to the left speaker, while the (>) side shifts it to the right speaker. (Display shows "BAL L9" ~ "BAL R9".)

Pre-Fader Adjustment

DEH-P605 does not have a pre out for the front, speaker ① cannot be connected. The pre-fader function of this unit controls the balance between speakers ①, ②, ③ and speaker (4), which are shown in Figure

Press button [10] to select pre-fader adjustment mode. Each press of the (+) side of button [1] gradually shifts the sound to speakers ①, ② and ③. Each press of the (-) side shifts the sound to speaker (a).
(Display shows "P-FAD +9" ~ "P-FAD -9".)



Tone Adjustment

Press button [10] to select tone adjustment mode. ("BAS" appears.) Select the tone you wish to adjust using the (◄) or (►) side of button [1]. Each press of the (►) side changes the tone from BAS - MID - TRE, while each press of the (◄) side changes the tone from TRE → MID → BAS.

Bass Adjustment

Select the Bass mode. Pressing the (+) side of button [1] increases bass, while the (-) side decreases bass. (Display shows "BAS -6" ~ "BAS +6".)

Middle Adjustment

Select Middle adjustment mode. Pressing the (+) side of button [1] increases middle, while the (-) side decreases midde. (Display shows "MID -6" ~ "MID +6".)

Treble Adjustment

Select Treble adjustment mode. Pressing the (+) side of button [1] increases treble, while the (-) side decreases treble. (Display shows "TRE -6" ~ "TRE +6".)

Loudness Adjustment

This "loudness" function enhances both the high and low ranges of sound to give even more power to output even at low volume.

Press button [10] to select loudness adjustment mode. (The "LOUD" indicator appears on the display.)

Pressing the (>) side of button [1] turns the loudness function on (LOUD [24] lights up); pressing the (<) side turns it off.

Using the Sub-woofer

- DEH-P605 does not have this feature. This unit's pre-out output (Rear) terminals can also be used as sub-woofer output terminals. When using these terminals as sub-woofer output terminals, carry out the following operations.
- When the sub-woofer function is used, the Pre Fader function does not work When button [10] in the previous item is pressed, the display moves to the next step in the sequence: VOL → FAD/BAL → 80 HZ (Sub-woofer) → BAS/MID/TRE → LOUD. (In other words, the Sub-woofer display replaces the Pre Fader display.)

Using the sub-woofer function

- 1. Press button [10] repeatedly to switch to the Pre Fader display ("P-FAD+9" -- "P-FAD-9").
- 2. When you hold down button [10] for at least 2 seconds, "SUB. WO" [22] lights up and the sub-woofer function comes on. The display switches to the sub-woofer display for about 8 seconds (displaying the frequency and output level *80HZ
- 3.To end the sub-woofer function, press button [10] repeatedly to switch to the sub-woofer display. Holding down button [10] for at least 2 seconds while the subwoofer is being displayed ends the subwoofer function

Frequency and output level adjustment

- 1. Press the button [10] repeatedly to switch to the sub-woofer display. (For about 8 seconds, the display shows the frequency and output level "80HZ 0").
- 2. While the sub-woofer display is shown, adjust the frequency and output level. Pressing the (◄) or (►) side of button [1] raises or lowers the frequency. Pressing the (+) or (-) side of button [1] raises or lowers the output level. The frequency can be set to 50 Hz, 80 Hz, or 120 Hz. The output level can be set within the range from -6 to 6.

Using the Source Level Adjuster

This is to adjust the difference in volume when the source is changed to built-in CD player, multi-play CD player, FM, or AM.

• Since the FM volume will be the standard

volume, it cannot be adjusted.

1. Check the FM volume.

- 2. Switch to the source whose volume is to be adjusted. Check the source's difference in volume with the FM volume.
- 3.Set to SLA mode. Press button [10] for at least 2 seconds. (The current level of "V 0" will be displayed.)
 - The SLA mode will be canceled after 8 seconds.
- 4. Adjust the difference in volume. Press the (+) or (-) sides of button [1].

 DEH-P605 does not have this feature. The volume will be reduced to about 1/10.
Press button [12]. ("ATT 12" will blink.) To cancel, press the button again.

Using the Tuner

Parts Identification

- [1] Tuning Seek/Manual Local Seek Sensitivity
- [4] Source [5] Band
- [7] Function
- [8] Preset
- [8] ® Local mode
 - FM Monaural
 BSM/Preset Scan
- [9] Preset
- [20] FM Stereo
- [21] Preset Number
- [23] Function
- [25] Frequency
- [26] FM Monaural
- [27] Manual [28] Local mode
- [29] Band

Electronic Tuner

Frequency allocation differs depending upon the area. This unit has been designed in accordance with the frequency allocations for North America. Use in other areas will result in improper reception.

Listening to the Radio

- 1.Set the source to "tuner" by pressing button [4].
- For details, refer to "Changing the Source*.
- 2. Select the band by pressing button [5]. Each time the button is pressed, the band will change in the following sequence: FM1 → FM2 → AM
- 3.Use seek tuning or manual tuning to tune to a radio station.
- 3-1. Set the tuning mode to "seek" or "manual" by pressing the (◄) and (►) sides of button [1] simultaneously. Repeat this operation to switch to the other tuning mode. (When the manual tuning mode is set, "MANU" [27] will be displayed.)

3-2. Tune by Press (◄) or (►) of button [1]. (When there is a stereo broadcast, "O" [20] will be displayed.)

Seek Tuning:

When the button is pressed, stations whose signal strength is above a certain level will be tuned automatically.

Manual Tuning:

When the button is pressed, the frequency will change by one step up or down.

Switching functions

Button [8] has two functions. It switches FM monaural, BSM, etc. ON and OFF, and it also serves as the preset button for the FM 1 band. Press button [7] to switch the function as desired.

Function ON:

[23] lights up on the display. Button [7]

lights up in yellow.

Leave the function ON when using button [8] for FM monaural, BSM, etc.

Function OFF:

[23] on the display switches off. Button [7] lights up in red.

Leave the function OFF when using button [8] as the preset button for the FM 1 band.

Using the Preset Memory

The radio stations can be stored in memory under buttons 1 to 6 of [9].

- FM 1 bands can be stored in the memory of button [8] (7 to 12). Leave the function OFF when storing memory into button 181.
- 1. Tune in to the station to be stored in
- memory.

 2. Store the station in memory by pressing one of the buttons (1 to 6) for at least 2 seconds. When the [21] number stops blinking and there is a beep, the station will be stored in memory under the button pressed.
 - Up to 18 FM stations (12 stations on FM 1 and 6 stations on FM 2) and 6 AM stations can be stored in memory.

Preset Tuning

The radio stations stored in memory can be recalled by pressing the respective button 1 to 6 of [9]. The station stored under that button will be recalled. (The number of the button pressed will be displayed at [21].)

The FM1 band can recall broadcast stations stored in the memory of button

Note:

Leave the Function ON when using button [8] in the following operations.

Using the Best Stations Memory (BSM)

The radio stations having a strong signal can be tuned automatically and stored in memory under buttons 1 to 6 [9]. Press ® of button [8] for at least 2 seconds. (The "BSM" will blink.) After "BSM" stops blinking, the stations will be stored in memory under buttons 1 to 6 of [9].

• The FM 1 band can also be stored in the

- memory of button [8].
- BSM can be canceled mid-operation by pressing @ of button [8].
- The stations will be stored under buttons 1 to 6 in the order of their signal strength. The strongest station will be stored under button 1, followed by stations with lower
- signal strengths.
 If there are fewer than 6 stations whose signal is strong, there will be spare memory
- It will take almost 30 seconds for BSM to be completed.

Preset Scan Tuning

This recalls in sequence all the stations stored in memory under the buttons [9] for 8 seconds each. Press @ of button [8]. (The [21] number will blink.) To cancel, press the button again. After the desired station is tuned, cancel the preset scan tuning. The station will then continue to be received.

- Stations stored in memory under the buttons [9] but whose signal is weak will not be recalled.
- The FM 1 band can recall broadcasting stations stored in the memory of button

Local Seek Tuning

When the local mode is set, the seek tuning's sensitivity level will become high and only stations with a strong signal will be seek tuned. The local mode's seek sensitivity can be adjusted.

Setting the Local Mode

Press ® of button [8]. (The "LOC.S" [28] will light.) To cancel the local mode, press the button again.

Adjusting the Local Seek Sensitivity

There are 4 local seek sensitivity steps for FM and 2 steps for AM.

- LOC-4 is the highest seek tuning sensitivity level. Only the stations with a strong signal are tuned. LOC-3, LOC-2, and LOC-1 in descending order enables the tuning of stations with a respectively weaker signal.
- 1.Set to local seek sensitivity adjustment mode. Press ® of button [8] for at least 2 seconds. (The current sensitivity level "LOC-2" will be displayed.)
 - The local seek sensitivity adjustment mode will be canceled after about 5 seconds.
- 2.Adjust the sensitivity level by pressing (◄) or (►) of button [1].

FM Monaural Reception

If a stereo broadcast has a lot of noise, switching to the monaural reception mode will reduce the noise. Press (a) of button [8]. ("MONO" [26] will appear on the display.) To cancel, press the button again.

Playing Compact Discs

The unit can control the built-in CD player as well as a multi-play CD player sold separately.

Parts Identification

- [1] Track Number Search Fast Forward and Reverse
- [2] Eject
- [3] Disc Insertion Slot
- [4] Source
- [7] Function
- [8] Disc Number Search
- [8] T Switching display
 - ® ITS (Instant track selector)
 - Switching playback mode
 Scan/Random play

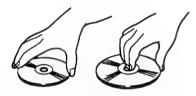
 - 1 Title list
 - 2 Pause
- [9] Disc Number Search
- [30] Multi CD player number
- [31] Disc number
- [32] Manual [33] Multi-play CD repeat
- [34] Disc repeat
- [35] Function
- [36] Playback time
- [37] Track number

Discs

· Only use compact discs (optical digital audio discs) bearing the mark shown below.



- · Do not use cracked, scratched, or warped discs.
- Do not touch the disc's playing side. Handle the disc as shown below.



- Do not affix any label on the disc.
- Do not apply any vinyl record spray, antistatic agent, benzene, paint thinner, or any other volatile chemicals.

· Do not play a dirty disc. Use a soft cloth to clean a dirty disc as shown below. Wipe the disc outward from the center.



- · Do not place the disc in high temperatures and direct sunlight.
- Be sure to store the disc in its case.

CD Playing Environment

- · Disc playback may be interrupted by sudden road shock.
- When the air temperature is low and the car heater is turned on, condensation on the disc and internal parts of the unit may prevent proper playback operation. If this happens, turn off the unit and wait one hour until the condensation is gone. Also, use a soft cloth to wipe off any condensation from the disc.

Listening to the Built-in CD Player

- 1. With the label side up, insert a disc into [3]. Playback will start. (The track number [37] and playback time [36] will be displayed.)
- Do not insert the disc with the label side down. Doing so may scratch the disc.
- If the disc stops midway while it is being inserted or if there is no playback after a disc is inserted, something may be wrong with the disc. Eject the disc and check it.
- 2.Turn ON/OFF the disc playback. Press
- button [4] to change the source.

 For details, refer to "Changing the Source".

3. Eject the disc by pressing button [2].Do not leave the disc halfway into the unit as shown below. Doing so may cause the disc to be bent or dropped.



Listening to the Multi-Play CD **Player**

- 1. Set the source to "multi-play CD player" by pressing button [4].
 - (The magazine number [30], disc number [31], track number [37], and playback time [36] will be displayed.) • For details, refer to "Changing the
- Source".
- After a magazine is inserted into the multi-play CD player, it will take several seconds for disc playback to start. ("READY" will light.) It is because the multi-play CD player will check the
- 2. Press button [4] to turn OFF when stopping disc playback.

Switching functions

Button (8) has two functions. It switches ITS, random replay, etc. ON and OFF and it also serves as the disc number search. Press button [7] to switch the function as desired.

Function ON:

[35] lights up on the display. Button [7] lights up in yellow.

Leave the function ON when using button [8] for ITS random playback, etc.

Function OFF:

[35] on the display switches off. Button [7] lights up in red.

Leave the function OFF when using button [8] for disc number search.

Switching the multi CD player

A maximum of 4 multi CD players can be connected to this unit.

Press button [5] to choose the desired CD player. The number of the CD player is indicated in [30] on the display.

3. DISASSEMBLY

Removing the Case

- 1.Remove the three screws.
- 2.Insert and turn a flat screwdriver at locations indicated by arrows to remove the case.

●Removing the Detach Grille Assy

1.Press the detach button, and then pull detach grille Assy.

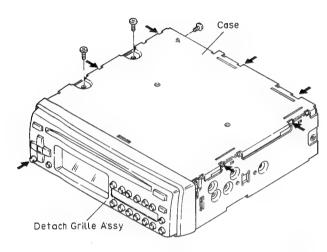


Fig.6

●Removing the Panel Unit

- 1.Remove the screw and disconnect the two stoppers indicated by arrows.
- 2.Disconnect the connector.

●Removing the CD Mechanism Module

- 1.Remove the four screws.
- 2.Disconnect the connector.
- 3.Remove the CD Mechanism Module.

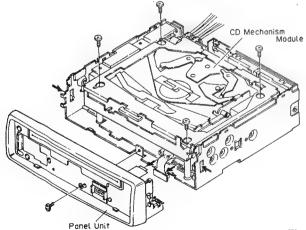


Fig.7

●Removing the Chassis Unit

- 1.Remove the two screws.(UC,ES model)
 Remove the three screws.(EW model)
- 2.Remove the screw and then remove the holder.
- 3.Stretch the four claws.
- 4.Remove the chassis Unit

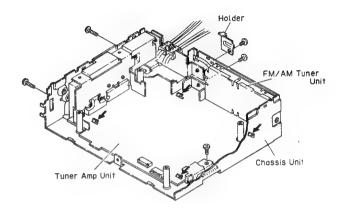


Fig.8

●Removing the PU Unit and Carrige Motor Assy

- 1.Remove the spring B as indicated by the arrow.(Fig.9)
- 2.Remove the spring A.(Fig.9)
- 3.Remove the engagement as indicated by the arrows 1 and 2, and then remove the clamper assy.(Fig.9)

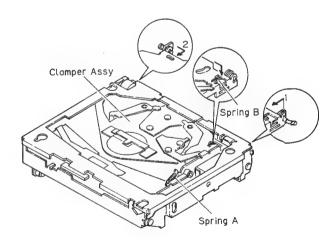


Fig.9

DEH-P705,P65,P605,P703,P705RDS

- 4.Fix short pin when removing the CN351 connector (For protection of the PU unit.)(Fig.10)
- 5.Remove the three screws.(Fig.10)
- 6.Since the control unit is connected to the switch substrate by means of connector, disconnect the connector and then remove the control unit right downward. (Fig.10)

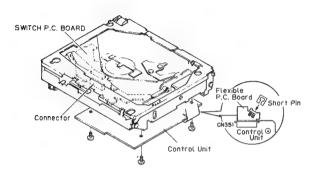


Fig. 10

- 7.Hook the spring as shown in the figure.(Fig.11)
- 8.Remove the holder and screw.(Fig.11)
- 9.Remove the flexible P.C.Board.(Fig.11)
- 10.Remove the PU Unit.(Fig.11)

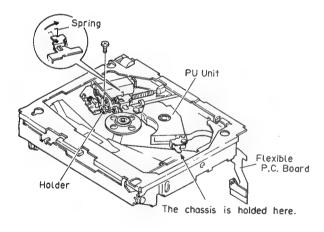


Fig. 11

11.Remove the screw, and then remove the carriage motor assy.(Fig. 12)

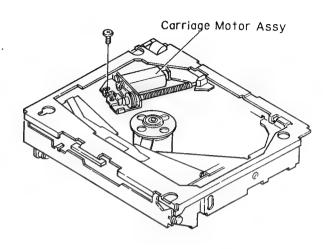


Fig. 12

●Removing the Damper Unit and Loading Motor

- 1. Turn the gear A manually in the arrow direction. (Fig. 13)
- 2.Press the rack gear in the arrow direction and engage gears.(Fig.13)
- 3.Put into the play mode.(The clamper assembly is at low position.)(Fig. 13)

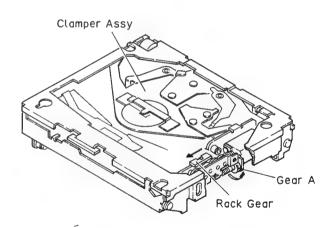


Fig. 13

3EH-P705,P65,P605,P703,P705RDS

- 4.Remove the four springs indicated by arrow.(Fig.14)
- 5.Remove the two screws A, and then remove the side frame assy.(Fig.14)
- 6.Remove the two screws B, and then remove the damper assy.(Fig.14)

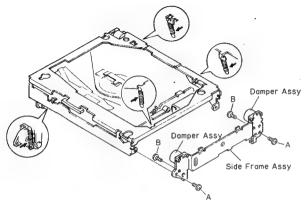


Fig. 14

- 7.Remove the frame assy from the mechanical parts.
- 8.Remove the two screws C, and then remove the damper assy.(Fig. 15)
- 9.Remove the clamper assy as shown in Fig. 15.

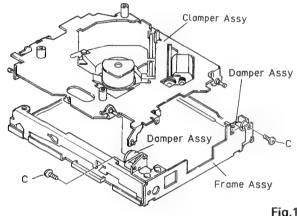


Fig.15

10. Turn the Loading gear to put into the ejection. (Fig. 16) 11.Remove one of the screws and remove the gear unit pressing the arm slightly toward the arrow.(Fig.16)

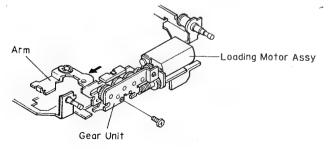


Fig.16

12.Remove the screw, and then remove the loading motor assy.(Fig.17)

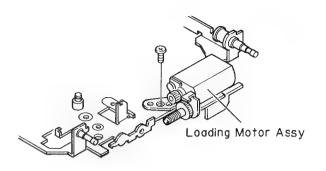
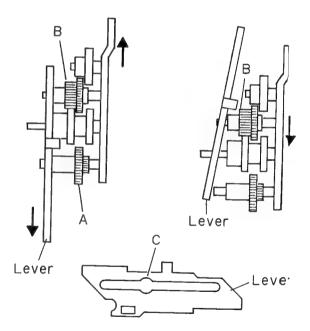


Fig.17

Removing the Gear Unit

- 13. Shift lever as shown in Fig. 18.
- 14.Remove the shaft A from C of lever.
- 15. Shift the gear as shown in Fig. 18.
- 16.Remove the shaft B from C of lever.



Fg.18

4. CIRCUIT DESCRIPTION

●Pre Attenuator Circuit

This model employs a pre attenuator circuit.

It is the circuit which attenuates an input level in the pre-stage of an electronic volume control according to the volume level.

The circuit permits us to improve the distortion factor at an ordinary playback level(at the ordinary volume level).

Once the transistor encircled with a dot line in the illustration has turned on, a resistance division will cause the input level to attenuate by -2 and -4 decibels.

An input to the electronic volume control varies as follows:

- 1. 0dB, with both transistors opened at the maximum.
- 2. -2dB, with the -2dB transistor ON.
- 3. -4dB, with the -4dB transistor ON.
- 4. -6dB, with both transistors ON.

This Model is to operate really in a combination with the electronic volume controls as follows:

VOL Control	30	29	28	27	26	25	 	0
Pre Attenuator	0	-2	-4	-6	-6	-6	 	-6
Eectronic volume	0	0	0	0	-2	-4	 	-00

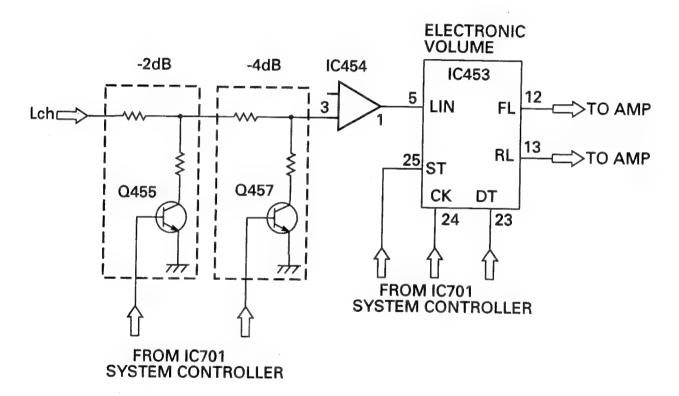
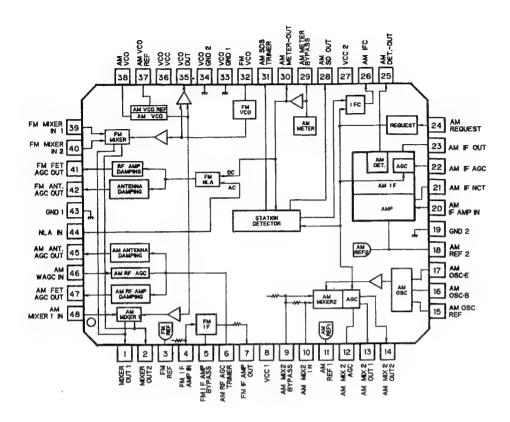


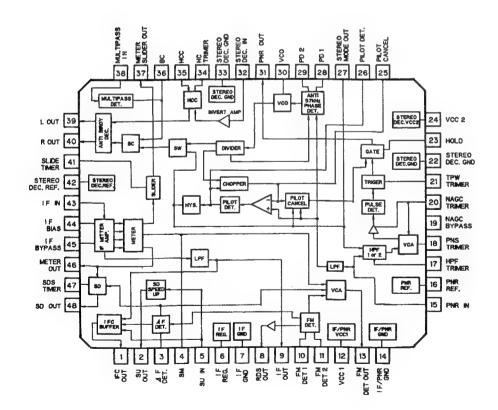
Fig. 19

● ICs

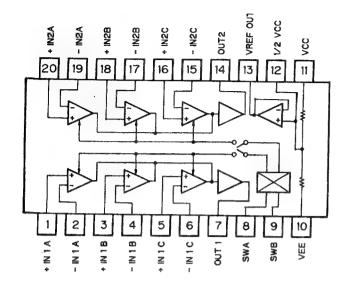
PA2021A



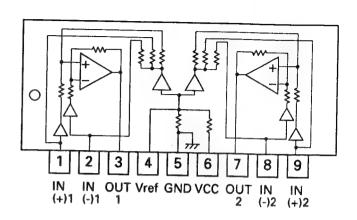
PA2022A



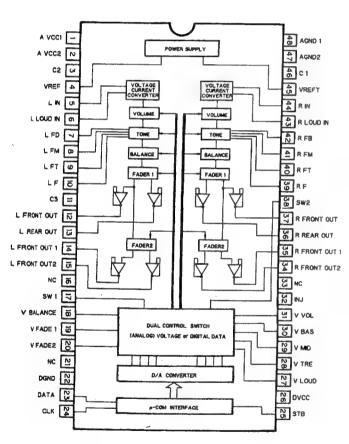
XRA3131FS



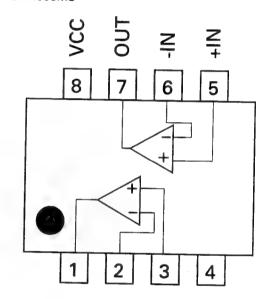
TA2050S



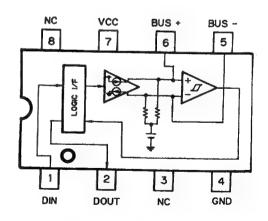
PM0004AM1



NJM4558MD



PA0051AM



Pin No.	Pin Name	1/0	Output	Function and Operation
			Format	
1	DSENS	1		Grille detach sense input
2	RDSRST	0	С	Reset output for RDS IC
3	RDSSEL	0	С	Select output for RDS IC
4	AVSS			A/D GND
5	RDSEN	0	C	Enable output for RDS IC
6	RDSRDY	1		Ready input from RDS IC
7	AVREF			
8	KYDT	1		Key data input
9	DPDT	0	С	Display and illumination data output
10	SWVDD	0	С	Grille power supply control output
11	RDSDI			Serial data input for RDS IC
12	RDSDO	0	С	Serial data output from RDS IC
13	RDSCK	0	С	Serial clock for RDS IC
14	BRST	0	С	P-BUS reset output
15	BRXEN	1/0	С	P-BUS reception enable input/output
16	BSRQ			P-BUS communication request input
17	BSIO	1/0	С	P-BUS communication data input/output
18	BSCK	1/0	С	P-BUS communication data clock input/output
19	SOR0	0	С	Source select output
20	SOR1	0	С	Source select output
21	VST	0	С	Strobe output for electronic volume
22	VDT	0	С	Data output for electronic volume
23	VCK	Ō	С	Clock output for electronic volume
24	NC	1		Not used
25	TMUTE	0	С	Tuner mute output
26	MUTE	0	С	Mute output
27	ASENBO	0	С	Slave power supply control output
28	ANTFIX	0	С	Tuner diversity fix select output
29	EVCON0	O	С	Distortion revision port for electronic volume
30	EVCON1	0	С	Distortion revision port for electronic volume
31,32	NC			Not used
33	VSS			GND
		1		Block and

Not used

Sub woofer control 0

Sub woofer control 1

Audition output

CD power control

Beep tone output

Illumination sense input

Clock adjustment output

Forced mono output

IP BUS data output

IP BUS data input

FM SD input

Reset

Not used

Not used

FM/AM power select output

LCD back light control output

Test program input

System power supply control output

Reset for CD mechanism module

Tuner power supply control output

Illumination power supply control output

Power supply control output for IP BUS interface IC

CD mechanism module power supply short sensor input

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52-55

NC

SUBW0

SUBW1

VOC

CDPW

TESTIN

SYSPW

VDIN

PEE

ISENS

BLGT

PCL

NC

TX

RX

SD

NC

IPPW

RESET

ILMPW

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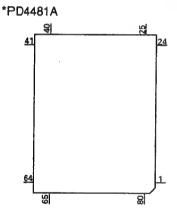
C

Pin No.	Pin Name	1/0	Output Format	Function and Operation
62	BSENS	ı		Back up power sense input
63	ASENS	-		ACC power sense input
64	PDI			PLL data input
65	- PDO	0	С	PLL data output
66	PCK	0	С	PLL clock output
67	PCE	0	С	PLL chip enable output
68	VDD			Power supply
69	X2			Crystal oscillator connection pin
70	X1			Crystal oscillator connection pin
71	IC			Connect to GND
72	XT2			Not used
73	TELIN	I		Telephone mute input
74	AVDD			
75	AVREF			
76	SL			Signal level input
77	SEL0			Model select pin
78	SEL1	1		Model select pin
79	SEL2	1		Model select pin
80	SEL3	1		Model select pin

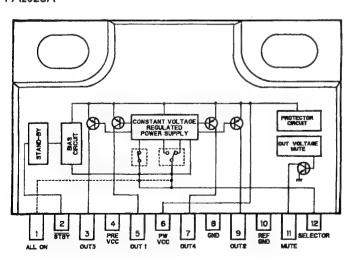
Output Format	Meaning
С	CMOS
N	N channel open drain

IC's marked by * are MOS type.

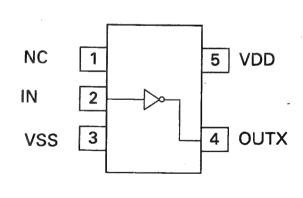
Be careful in handing them because they are very liable to be damaged by electrostatic induction.



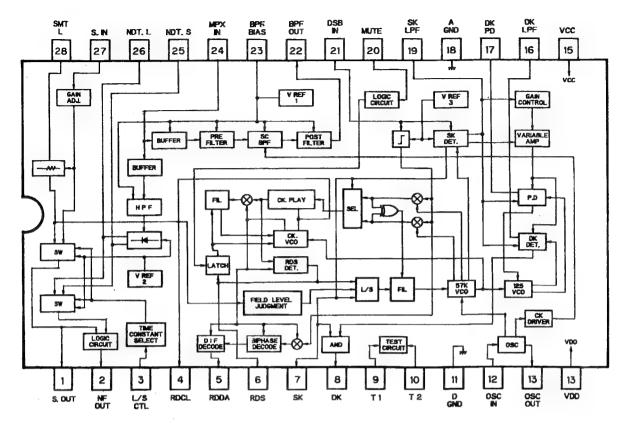
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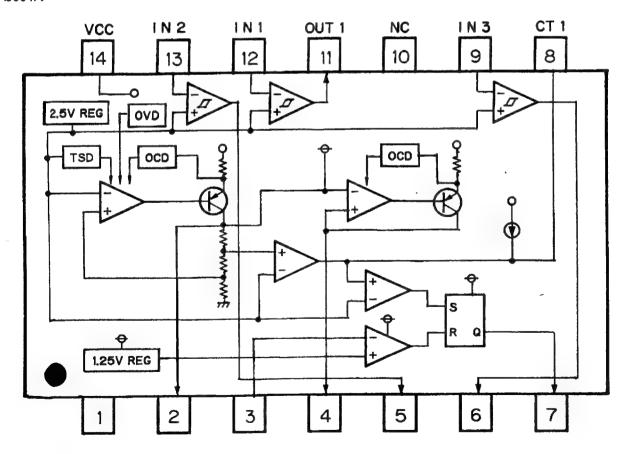
SC14SU69F



*PMR001A



PAJ001A

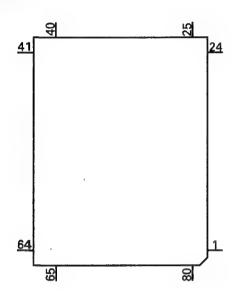


Pin Functions(PD5256A)

Pin No.	Pin Name	I/O	Output Format	Function and Operation
1	NC		Tomat	Not used
2	TEMP	1		Temperature detector
3	VDSENSE2	1		Short sense input
4	DCD	0	NM	Command/data appointment output
5	DCS	0	NM	Chip select output
6	DRDY	1		Ready input
7	DRST	0	NM	Reset output
8	A0	0	NM	Control signal distinguishing data from microcomputer
9	XSCK	0	NM	LSI clock output
10	XSO	0	NM	LSI data output
11	XSI	1		LSI data input
12	STB	0	С	LSI Strobe output
13	RST	0	С	Reset ouput pin
14	ENDOUT	0	С	Digital output enable signal
15	PEE	0	С	Beep tone output
16,17	NC			Not used
18	BRST			Bus communication reset input pin
19	BSRQ	0	С	Bus communications service request output pin
20	BRXEN	1/0	C	Bus communication reception enable input pin
21	BSCK	1/0	C	Bus serial clock input/output
22	BSO	0	C	Serial data output pin
23	BSI	ĭ		Bus serial data input
24	EJSW	 	-	Eject signal input
25	REMIN			Remote control pulse input
26	CNVSS			GND
27	RESET	<u> </u>		
28	FECNT	0	С	Reset input
29	NC	U	C	FE output control pin
30	XIN			Not used
31	XOUT	0	С	Crystal oscillating element connection pin
32	VSS		C	Crystal oscillating element connection pin GND
33-40	NC NC			
41	POWER	0	С	Not used
42	CONT	0	C	CD +5V control
43,44	NC	-0	L	Servo driver power supply control
45	VDSENS	4		Not used
46	VDCONT			VD over voltage sense input
47	DSET	0	C	VD control input
48	BLGT			Disc set indicator control output
49	VMC	0	C	LCD back light control output
50	EJ	0		Loading motor driver power supply
51	LOAD	0	C	Loading motor EJECT control
52	NC	0		Loading motor LOAD control
53	DINC			Not used
54	EJTD			Disc insert sense input
55				Disc eject position sense input
56	CLAMP			Disc clamp sense input
57	NC			Not used
	HOLD	0		Hold control output
58 59	TBC	0	С	Tracking bank switching output
	NC MIDD			Not used
60	MIRR	-!		Mirror detector input
61	LOCK	-!		Spindle lock detector input
62	FOK	1		FOK signal input
63	HOME			Home position detector input
64-68	NC			Not used
69	OPTSW CDMUTE	1	С	Digital output ON/OFF input
70		0		CD mute output

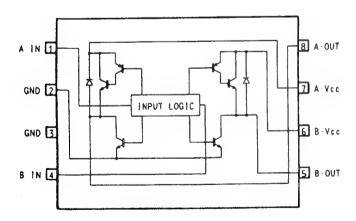
Pin No.	Pin Name	I/O	Output Format	Function and Operation	
71	ADENA	0	С	A/D reference voltage output	
72	TESTIN	ı		Test program mode input	
73	VCC			Back up 5V	
74	VREF	1		A/D reference voltage input -	
75	AVSS			A/D GND	
76	CSEL			Compression select	
77,78	NC			Not used	
79	KD0	1		Analog key input 0	
80	KD1	1		Analog key input 1	

*PD5256A



Output Format	Meaning
С	CMOS
NM	Middle resistivity
	N channel open drain

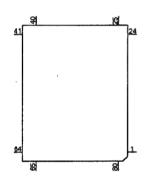
MB3854PF



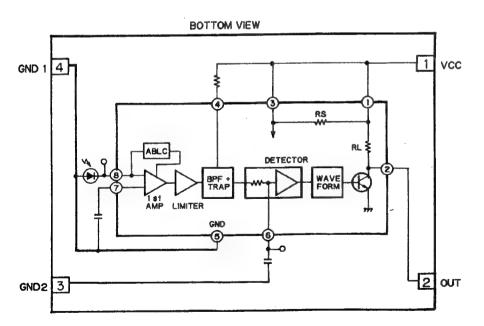
●Pin Functions (PD6122A)

- Unit un	ICCIONS (I DO 12		
Pin No.	Pin Name	1/0	Function and Operation
1	VSS		GND
2	X1		Crystal oscillator connection pin
3	X0		Crystal oscillator connection pin
4	RESET		Reset Input
5,6	MOD1,0		Model select input
7	DILMX	0	Function LED select output
8	KYDT	0	Key data output
9	DPDT		Display data input
10	REMIN	1	Remote control pulse input
11	SILMO	0	Illumination color select output
12	SILMG	0	Function LED select output
1316	KD4-KD1	1	Key sense input
17-22	KDT6-1	0	Key strobe output
23	VDD		5V
24-34	NC		Not used
3573	SEG38-0		LCD segment output
74-77	COM3-0	0	LCD common output
78-80	VLCD-V1		Power supply terminal

*PD6122A



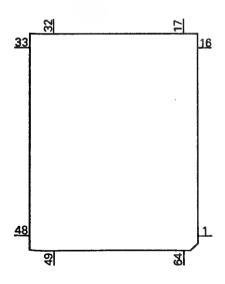
RS-30



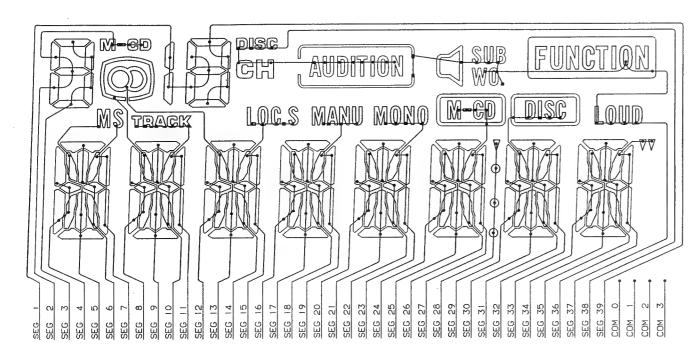
Pin Functions (PD0191A)

Pin Fun	ctions (PD0191	IA)		
Pin No.	Pin Name	1/0	Output	Function and Operation
			Format	
	RDSEN	1		Enable input from system control IC
2	RDSCK	I		Serial clock input from system control IC
3–6	RDSDT7-4	1/0	С	Data input/output to system control IC
7–15	NC			Not used
16	RDSSEL	1		Select input from system control IC
17	TUNSEL	1		FM/AM tuner unit select input
18,19	NC			Not used
20	CNVSS	1		GND
21	RDSRST	1		Reset input from system control IC
22	XIN	1		Crystal oscillating element connection pin
23	XOUT	0		Crystal oscillating element connection pin
	NC			Not used
	VSS			GND
	SCHK	T		Software check input
27-31	NC			Not used
32	RCK	I		RDS demodulation clock input
	RDT			RDS demodulation data input
34-45	NC			Not used
	DRST	0	С	Decoder reset output
	SD			SD input
	SK	T		SK signal input
	RDSLK	1		RDS LK signal input
	DK	1		DK signal input
51	ERROR	0	С	Disapprove of error correction output
	CORR	0	С	Error output
	RECIVE	0	С	During RDS data reception output
54-56				Not used
	FZOUT	0	С	Fuzzy control output
58	VCC			5V
	NC			Not used
	FZIN	T		Fuzzy level input
	SL			Signal level from tuner
62,63				Not used
	RDSRDY	0	С	Ready output for system control IC

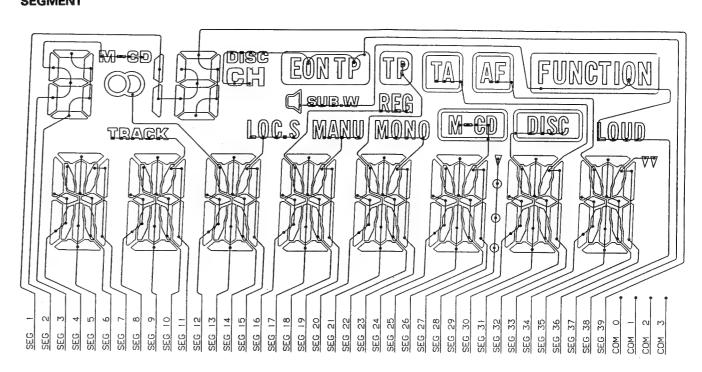
*PD0191A



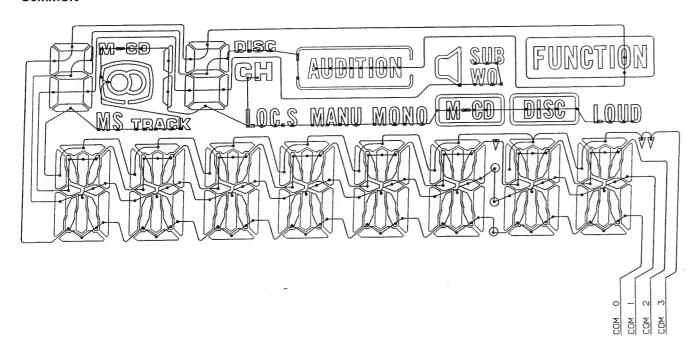
●LCD(CAW1222)(UC,ES Model) SEGMENT



●LCD(CAW1221)(EW Model) SEGMENT



COMMON



COMMON

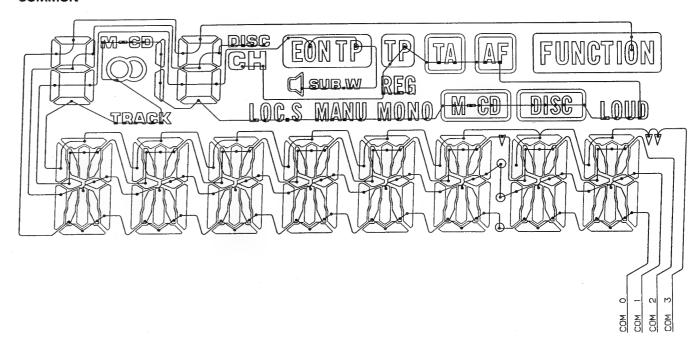


Fig.21

Fig.20

5. BLOCK DIAGRAM

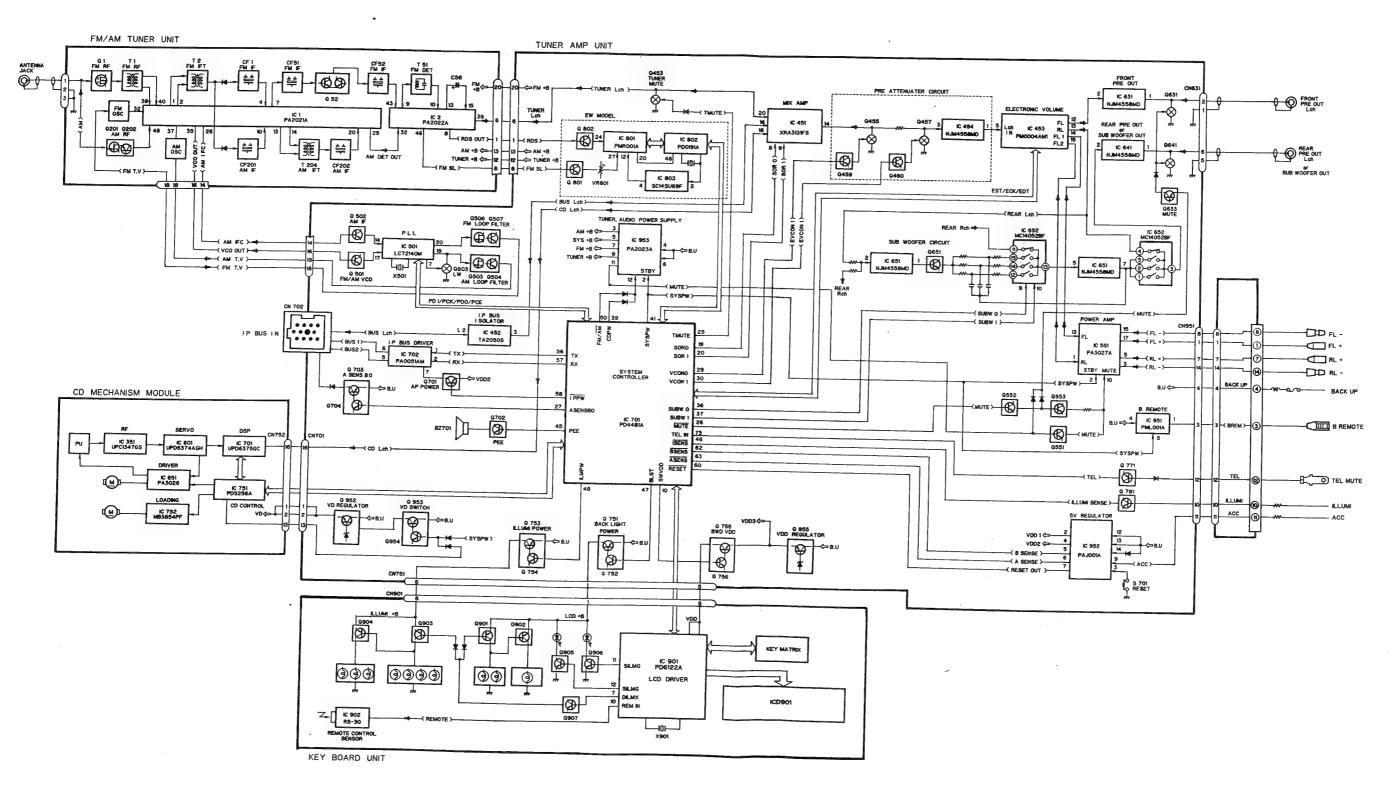


Fig.22

1-28

6. ADJUSTMENT

6.1 CD ADJUSTMENT

1)Precautions

This unit uses a single power supply (+5V) for the regulator. The signal reference potential, therefore, is connected to REFOUT(approx. 2.5V) instead of GND.

If REFOUT and GND are connected to each other by mistake during adjustments, not only will it be impossible to measure the potential correctly, but the servo will malfunction and a severe shock will be applied to the pick-up. To avoid this, take special note of the following.

Do not connect the negative probe of the measuring equipment to REFOUT and GND together. It is especially important not to connect the channel 1 negative probe of the oscilloscope to REFOUT with the channel 2 negative probe connected to GND.

And since the frame of the measuring instrument is usually at the same potential as the negative probe, change the frame of the measuring instrument to floating status.

If by accident REFOUT comes in contact with GND, immediately switch the regulator or power OFF.

- Always make sure the regulator is OFF when connecting and disconnecting the various filters and wiring required for measurements.
- Before proceeding to further adjustments and measurements after switching regulator ON, let the player run for about one minute to allow the circuits to stabilize.
- Since the protective systems in the unit's software are rendered inoperative in test mode, be very careful to avoid mechanical and /or electrical shocks to the system when making adjustment.

- ■Test mode starting procedure Switch ACC,back-up ON while pressing the 4 and 6 keys together.
- Test mode cancellation
 Switch ACC, back-up OFF.
- Disc detection during loading and eject operations is performed by means of a photo transistor in this unit.Consequently,if the inside of the unit is exposed to a strong light source when the outer casing is removed for repairs or adjustment, the following malfunctions may occur.

*During PLAY, even if the eject button is pressed, the disc will not be ejected and the unit will remain in the PLAY mode.

*The unit will not load a disc.

When the unit malfunctions this way, either re-position the light source, move the unit or cover the photo transistor.

- When loading and unloading discs during adjustment procedures, always wait for the disc to be properly clamped or ejected before pressing the another key. Otherwise, there is risk of the actuator being destroyed.
- ■Turn power off when pressing the button FVVD or the button REV key for focus search in the test mode. (Or else lens may stick and the actuator may be damaged.)

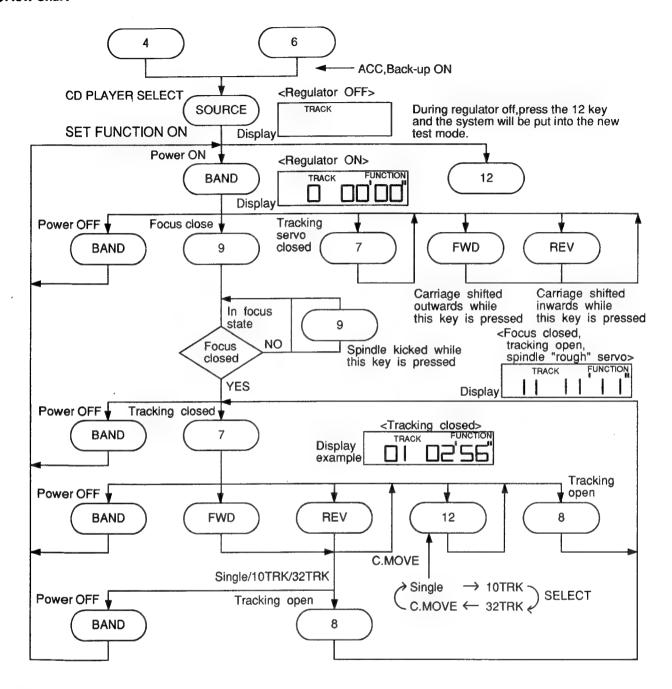
Key	Function
BAND	Regulator ON/OFF
FWD	FWD Kick
REV	REV Kick
7	Tracking close

Key	Function
8	Tracking open
9	Focus close
12	Carriage/Tracking

Press 7,8,9 and 12 keys when the function is on.

- SINGLE/10TRK/32TRK will continue to operate even after the key is released. Tracking closed the moment C-MOVE is released.
- JUMP MODE resets to SINGLE as soon as power is off.

Flow Chart



7 key(FUNCTION ON MODE)
8 key(FUNCTION ON MODE)

9 key(FUNCTION ON MODE)12 key(FUNCTION ON MODE)

Measuring Equipment and Jigs

Adjustment	Measuring equipment & jigs
1 Grating Adjustment (Rough adjustment) -	Oscilloscope, clock driver, grating adjustment filter (bandpass filter) (GGF133), AC millivoltmeter TCD-782 (or SONY TYPE4) Extension Cable: GGF1132, GGF1135, GGF1128, GGF1126, GGF-070
2 Tangential Skew Check	Oscilloscope,screwdriver TCD-782 (or SONY TYPE 4) Extension Cable:GGF1132,GGF1135,GGF1128,GGF1126,GGF-070
3 Grating Adjustment (Fine adjustment)	Oscilloscope,clock driver,two low-pass filters TCD-782 (or SONY TYPE 4) Extension Cable:GGF1132,GGF1135,GGF1128,GGF1126,GGF-070
4 FE Bias Adjustment	Oscilloscope TCD-782 (or SONY TYPE 4) Extension Cable:GGF1132,GGF1135,GGF1128,GGF1126,GGF-070
5 RF Offset Adjustment	Oscilloscope TCD-782 (or SONY TYPE 4) Extension Cable:GGF1132,GGF1135,GGF1128,GGF1126,GGF-070
6 TE Offset Adjustment-1	DC voltmeter Extension Cable:GGF1132,GGF1135,GGF1128,GGF1126,GGF-070
7 Tracking Balance Adjustment-1	Oscilloscope TCD-782 (or SONY TYPE 4) Extension Cable:GGF1132,GGF1135,GGF1128,GGF1126,GGF-070
8 Focus Servo Loop Gain Adjustment	Oscillator,gain adjustment filter (GGF-065), dual meter milli-voltmeter TCD-782 (or SONY TYPE 4) Extension Cable:GGF1132,GGF1135,GGF1128,GGF1126,GGF-070
9 Tracking Servo Loop Gain Adjustment	Oscillator,gain adjustment filter (GGF-065), dual meter milli-voltmeter TCD-782 (or SONY TYPE 4) Extension Cable:GGF1132,GGF1135,GGF1128,GGF1126,GGF-070
10 TE Offset Adjustment-2	DC voltmeter Extension Cable:GGF1132,GGF1135,GGF1128,GGF1126,GGF-070
11 Tracking Balance Adjustment-2	Oscilloscope TCD-782 (or SONY TYPE 4) Extension Cable:GGF1132,GGF1135,GGF1128,GGF1126,GGF-070

The state of the s

Adjustment Point

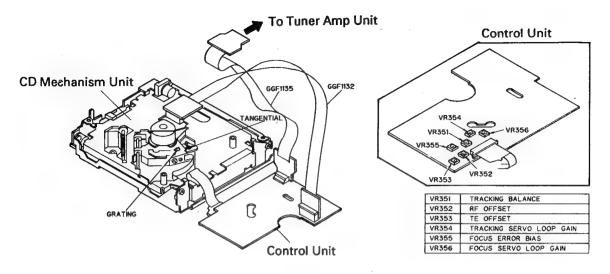
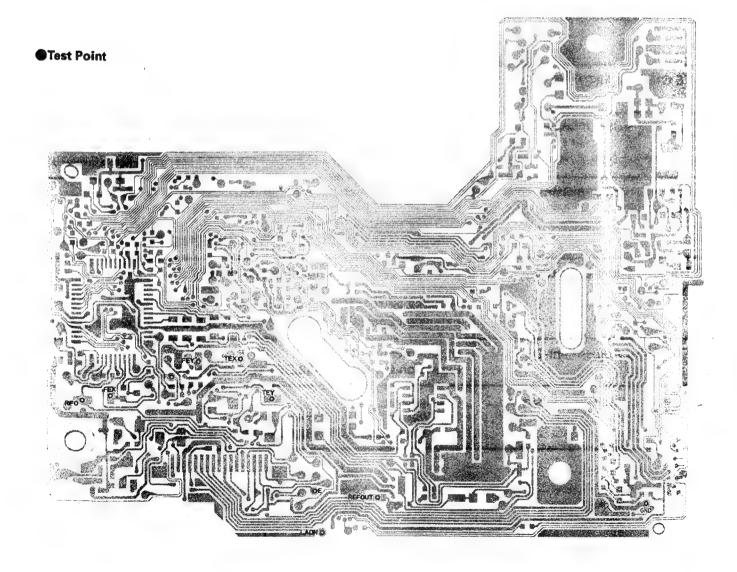


Fig.24



1 Grating Adjustment (Rough adjustment)

Purpose:

The grating may need adjustment in a replaced pickup unit.

Maladjustment symptoms:

No disc playback;track jumping.

 Measuring equipment / jigs

 Oscilloscope, clock driver, grating adjustment filter (bandpass filter)(GGF-133),AC millivolt-

meter.

Measuring point

• TFY

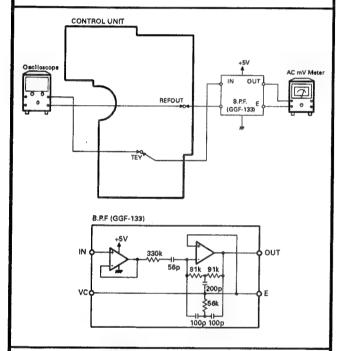
Test disc and setting

• TCD-782 (or SONY TYPE 4)

Test mode.

Adjustment position

Pick-up grating adjustment hole.



Adjustment Procedure

- 1. Switch regulator ON in test mode, and load a disc.
- 2. Use FWD or REV key as required to bring pick-up at the adjusting hole on control unit (Tune TNO 19). (TYPE 4:TNO 14)

Match with TNO 19 (TYPE 4:TNO 14) when releasing the control unit.

- 3. Press the 9 key to close focus.
- 4. While monitoring the TEY filter output by AC millivoltmeter, turn the grating adjustment hole slowly. The AC voltage increases and decreases while turning the screw. Search for the minimum voltage level. (This corresponds to the position where the grating is on a track, and is referred to as the null point.)
- 5. Then while monitoring TEY by oscilloscope, turn the driver slowly clockwise from the null point (as seen from under the pick-up) until the first wave form peak amplitude is reached.

2 Tangential Skew Check

Purpose:

To check whether tangential skew has been misaligned or not when replacing the pick-up unit.

Maladjustment symptoms:

No disc playback, track jumping.

· Measuring equipment / jigs

Oscilloscope,screwdriver

Measuring point

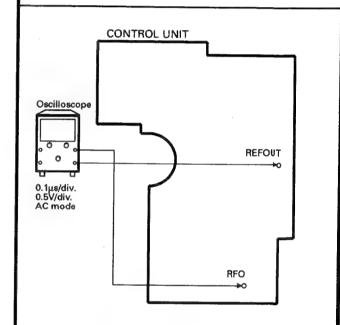
Test disc and setting

• TCD-782 (or SONY TYPE 4)

Normal mode

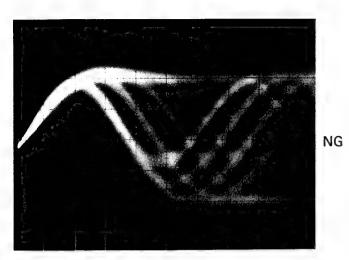
Adjustment position

· Pick-up tangential adjustment screw

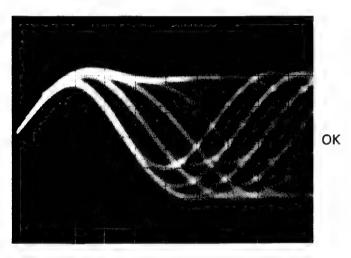


Adjustment Procedure

- 1. Check that the pick-up position does not differ from that at the same time of grating adjustment. (TCD-782:TNO19, TYPE 4:TNO 14)
- 2. Turn the tangential adjustment screw to obtain a good RF waveform eye pattern. Turn the adjustment screw both clockwise and counterclockwise to points where the eye pattern deteriorates, and take the midway point as the adjustment point. As a general guide, look for an overall clear waveform, and one of the diamond shapes in the eye pattern. The diamond shapes should appear in fine lines at the point of optimum adjustment. Take care not to knock the pick-up with the screwdriver at this stage. (This kind of a ccident can result in loss of focus.) (See Waveforn 1.2)
- 3. Apply "screw-lock" to the tangential adjustment screw.
- 4. After adjusting tangential skew, also adjust the grating.



Waveform 1



AC Mode 0.5 V/div. 0.1 µs/div.

Waveform 2

3 Grating Adjustment(Fine adjustment)

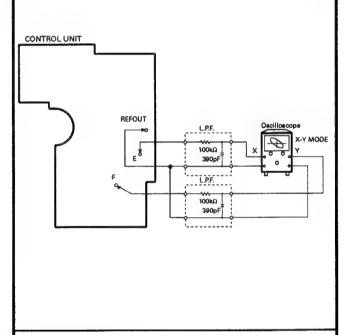
· Purpose:

The grating may need adjustment in a replaced pickup unit.

Maladjustment symptoms:

No disc playback;track jumping.

- ment / jigs
- Measuring equip- Oscilloscope, clock driver, two low-pass filters
- Measuring point
- TEY, ELPF output, FLPF output • TCD-782 (or SONY TYPE 4)
- · Test disc and setting
 - Test mode
- Adjustment position
- Pick-up grating adjustment hole



Adjustment Procedure

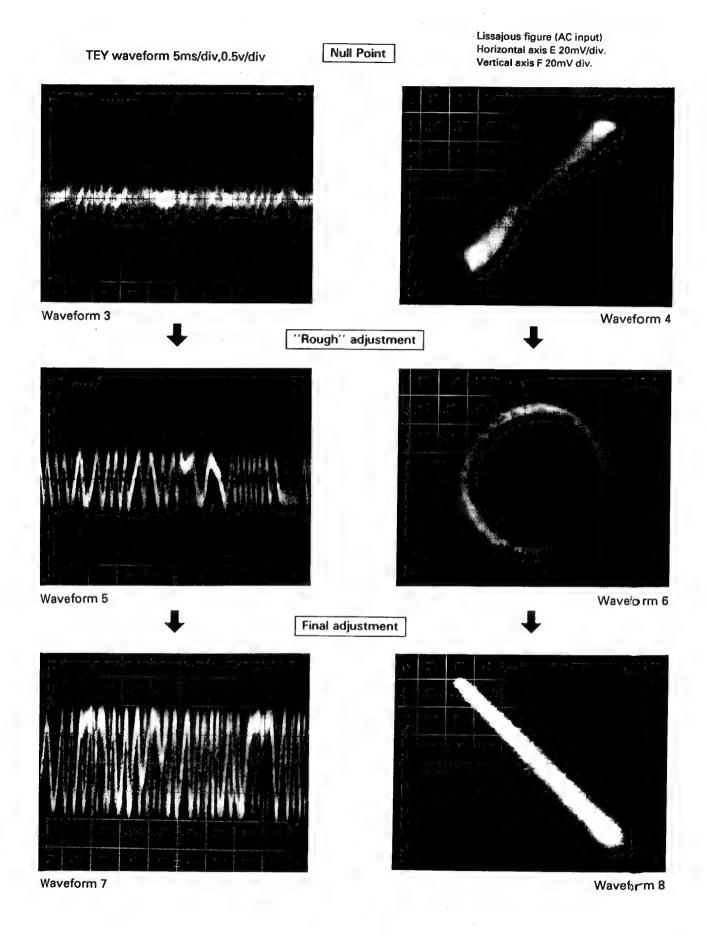
- 1. Switch regulator ON in test mode, and load a disc.
- 2. Use FWD or REV key as required to bring pick-up at the adjusting hole on control unit (Tune TNO 19). (TYPE 4:TNO 14)

Match with TNO 19 (TYPE 4:TNO 14) when releasing the control unit.

- 3. Press the 9 key to close focus.
- 4. With the E low-pass filter output connected to the X axis of the oscilloscope, and the F low-pass filter output connected to the Y axis, apply an input in AC mode and observe the Lissajous figure.

(See Waveform 3-8)

- 5. Using the driver, adjust the Lissajous figure to a single line (or as close as possible).
- 6. Switch regulator OFF and remove the filters.



4 FE Bias Adjustment

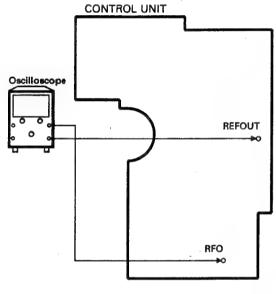
· Purpose:

To adjust the focus servo bias to an optimum value.

Maladjustment symptoms:

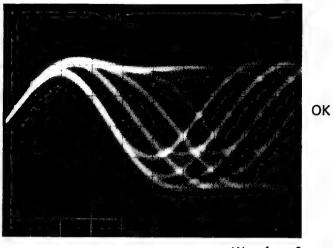
Focus closing difficulty, poor playability.

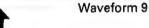
- · Measuring equipment / jigs
- Oscilloscope
- Measuring point
- RFO
- Test disc and setting
- TCD-782 (or SONY TYPE 4)
- Normal mode
- Adjustment position
- VR355(FEB)

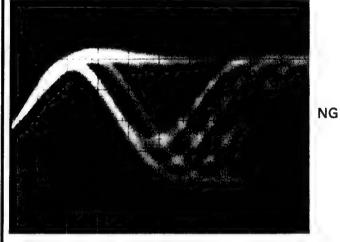


Adjustment Procedure

- 1. Play in normal mode.
- 2. Observe RFO in respect to REFOUT in the oscilloscope, and adjust VR355(FEB) to obtain maximum RF and eye pattern. (See Waveform 9,10)







AC Mode

Before adjustment

Waveform 10

5 RF Offset Adjustment

• Purpose:

To adjust the RF amplifier offset to a suitable value.

Maladjustment symptoms:

Focus closure fails readily.

Measuring

Oscilloscope

ment / jigs Measuring point

• RFO

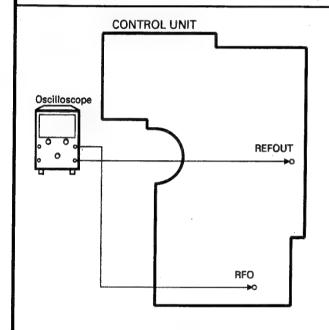
Test disc and setting

• TCD-782 (or SONY TYPE 4)

Normal mode

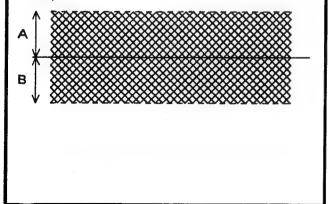
Adjustment position

VR352(RFO)



Adjustment Procedure

- 1. Play tune TNO 19 in normal mode.(TYPE 4:TNO 14)
- 2. Use VR352 to adjust the RFO waveform so that RE-FOUT appears at the center. (A-B must not exceed 100 mV.)



6 TE Offset Adjustment-1

· Purpose:

To adjust the electrical offset of the tracking servo to zero

Maladjustment symptoms:

Search times too long, carriage run-away.

· Measuring equip- · DC voltmeter

ment / jigs

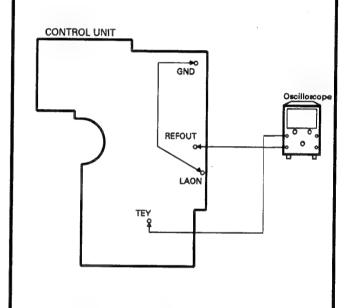
• TEY

 Measuring point Test disc and setting

• No Disc

Adjustment position

 Test mode VR353(TEO)



Adjustment Procedure

- 1. Connect LAON to GND.
- 2. Switch regulator ON while in test mode.
- 3. Using VR353(TEO), adjust the TEY output DC voltage in reference to REFOUT to a value of0±25mV.
- 4. Switch regulator OFF.

7 Tracking Balance Adjustment-1

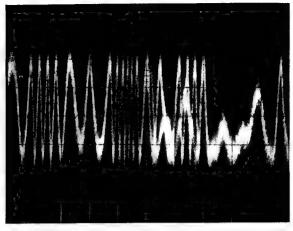
• Purpose:

To adjust the tracking servo offset to zero.

Maladjustment symptoms:

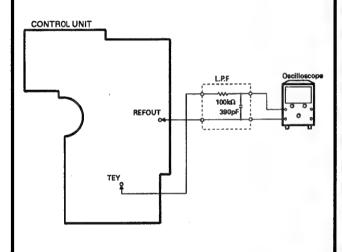
Search times too long, poor playability, carriage runaway.

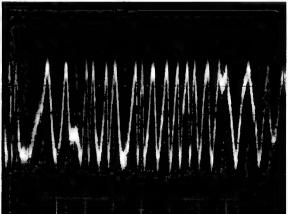
- Measuring equipment / jigs
- equip- Oscilloscope
- Measuring point
- TEY(Tracking error signal)
- Test disc and setting
- TCD-782 (or SONY TYPE 4)
- Test mode
- Adjustment position
- VR351(T.BAL)



+5% NG

Waveform 11





±0% OK

Waveform 12

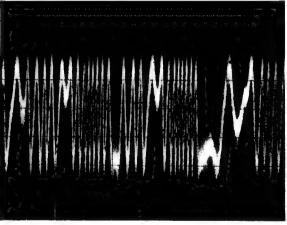
Adjustment Procedure

- 1. Set the test disc (TCD-782). Switch regulator ON.
- 2. Using the FWD or REV key, move the pick-up to about the center of the signal surface.
- 3. Press the 9 key to close focus.
- 4. Using an oscilloscope, observe the TEY signal in respect to REFOUT.

Then adjust VR351(T.BAL)to set the positive and negative amplitudes to the same levels.

(See Waveform 11-13)

5. Switch the power OFF.



-5% NG

10ms/div. 0.5V/div. DC Mode

Waveform 13

8 Focus Servo Loop Gain Adjustment

Purpose:

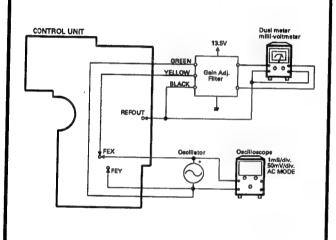
To adjust the focus servo loop gain to an optimum value.

Maladjustment symptoms:

Poor playability, reduced resistance to vibration, focus closure fails readily.

Measuring equipment / jigs

- Oscillator,gain adjustment filter (GGF-065),dual meter milli-voltmeter
- Measuring point
- FEX,FEY
- Test disc and setting
- TCD-782 (or SONY TYPE 4)
- Normal mode
- Adjustment position
- VR356(FG)



Adjustment Procedure

- After checking that the power is OFF, connect the gain adjustment filter and measuring equipment as shown in the above diagram.
- 2. Play tune TNO 19 in normal mode.(TYPE 4:TNO 14)
- Set the oscillator to 1kHz, and observe the FEX/FEY output in the oscilloscope. Adjust the oscillator output to obtain a FEX/FEY output of 100mVp-p.
- Adjust VR356(FG) to obtain a milli-voltmeter difference of 0±0.5dB.

9 Tracking Servo Loop Gain Adjustment

· Purpose:

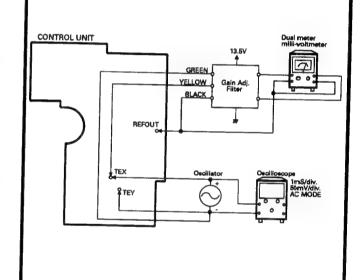
To adjust the tracking servo loop gain to an optimum value.

Maladjustment symptoms:

Poor playability, reduced resistance to vibration.

Measuring equipment / jigs

- Oscillator,gain adjustment filter (GGF-065),dual meter milli-voltmeter.
- Measuring point
- TEX,TEY
- · Test disc and setting
- •TCD-782 (or SONY TYPE 4)
- Normal mode
- Adjustment position
- VR354(TG)



Adjustment Procedure

- After checking that the power is OFF, connect the gain adjustment filter and measuring equipment as shown in the above diagram.
- 2. Play tune TNO 19 in normal mode.(TYPE 4:TNO 14)
- Set the oscillator to 1.4kHz, and observe the TEX/TEY output in the oscilloscope. Adjust the oscillator output to obtain a TEX/TEY output of 300mVp-p.
- Adjust VR354(TG) to obtain a milli-voltmeter difference of 0±0.5dB.

10 TE Offset Adjustment-2

· Purpose:

To adjust the electrical offset of the tracking servo to zero.

Maladjustment symptoms:

Search times too long, carriage run-away.

· Measuring equip- · DC voltmeter

ment / jigs Measuring point

• TEY

Test disc and setting

No Disc

Test mode

Adjustment position

VR353

Adjustment Procedure

Same as for TE offset adjustment-1, but with the DC voltage of the TEY output adjusted to 0±50mV.

The purpose of this additional adjustment is to correct any deviations generated when carrying out the tracing balance and tracking servo loop gain adjustments after completing TE offset adjustment-1.

11 Tracking Balance Adjustment-2

· Purpose:

To adjust the tracking servo offset to zero.

Maladjustment symptoms:

Search times too long, poor playability, carriage runawav.

Measuring equip- • Oscilloscope.

ment / jigs Measuring point

• TEY

Test disc and setting

• TCD-782 (or SONY TYPE 4)

Test mode

 Adjustment position • VR351

Adjustment Procedure

Steps 1 thru 5 same as tracking balance adjustment-1.

- 6. Check that the level difference between the positive and negative amplitudes of the TEY signal is within 5% (See Waveform 11-13)). If greater than 5%, adjust with VR351.
- 7. If further adjustment was necessary in step 6, repeat TE offset adjustment-2.

●New Test Mode (aging operation and setup analysis)

The CD ,either single or multiple, plays in the normal mode. After being set up, it will display FOK (focus), LOCK (spindle), subcode, sound skip, protection against a mechanical error or the like, occurrence of an error, cause and time of an expiry, if any, (and disc number in the multi-mode).

During the setup, the CD software operation status (internal RAM and C-point) is displayed. The software on the head unit side dose not involve any special problem but runs normally.

- (1) How to Put in the NEW TEST Mode See the test mode flow chart page 1-30.
- (2) Relations of keys between TEST and NEW TEST Modes.

P-BUS Commands IP-BUS	Keys	Test Mode		New Test Mode	New Test Mode						
Commands		Regulator OFF	Regulator ON	Play in progress	Error Protection Talking place						
B0 15 00	BAND	Regulator ON	Regulator OFF		Time of occurrence Cause of error Selected						
B1 15 01	FWD	-	FWD-KICK	TRACK+/FWD	_						
B2 15 02	REV		REV-KICK	TRACK-/REV							
B3 15 03	7	_	TRACKING CLOSE	_	_						
B4 14 04	8		TRACKING OPEN	MODE	_						
B5 15 05	9		FOCUS CLOSE	_	_						
В6			FOCUS OPEN	RANDOM							
В7	_		Jump-OFF	_	_						
B8 15 08	12	To new Test Mode	Jump-Mode selected	A/M	Occurrence T.No Time of occurrence Selected						

7,8,9 and 12 keys(FUNCTION ON MODE)

Operations, such as EJECT, CD ON/OFF, etc. are to be performed normally

(3)Error Cause (Error Number) Code

Error Code	Classification	Mode	Description	Cause/Detail	Cause/Detail						
40	ELECTRIC	PLAY	FOK=L100ms	Put out of focus	Sca,						
4 1	ELECTRIC	PLAY	LOCK=L100ms	Spindle unlocked	Stain, Vibration,						
42	ELECTRIC	PLAY	Subcode unacceptable 500ms	Subcode fails to read	Servo defect, etc						
43	3 ELECTRIC PI		Sound skipped	Last address memory operated							

^{*}The error code is identical with those in the normal mode.

(4)Indicating an Operation Status During Setup

Status No.	Description	Protection operation
01	Carriage home mode started	None
02	Carriage moving on the internal circumference	10-second time out
03	Carriage moving on the external circumference	10-second time out
11	Setup started	None
12	Spindle turn/Focus search started	None
13	Waiting for focus closing	Failure to focus closing
14	Spindle kicked and focus checked	Out of focus
15	Tracking closed and focus checked	Out of focus
17	Carriage closed and focus checked	Out of focus
18	Lock Waiting subcode	Failure to lock, Subcode failed to read out of focus
19	End	None

(5)Example of 7-segment Display. (a)SET UP in progress

TRACK MIN SEC

11 11 11 While in the TEST MODE, a status number is indicated in TNO, MIN and SEC.

TRACK

11

MIN SEC

11 11

(b)Operation (PLAY, SEARCH, etc.) in progress perfectly identical with that in the multi mode.

(c)Protection/Error upon occurrence

ERROR-XX While in the error mode, an error number is displayed in MIN and SEC.

Select the display with the BAND key.

TRACK MIN SEC

10 40 05 While in the PLAY MODE, an absolute time is indicated in TNO, MIN and SEC.

TRACK

MIN SEC —Select the display with the 12 key.(When function is on.)

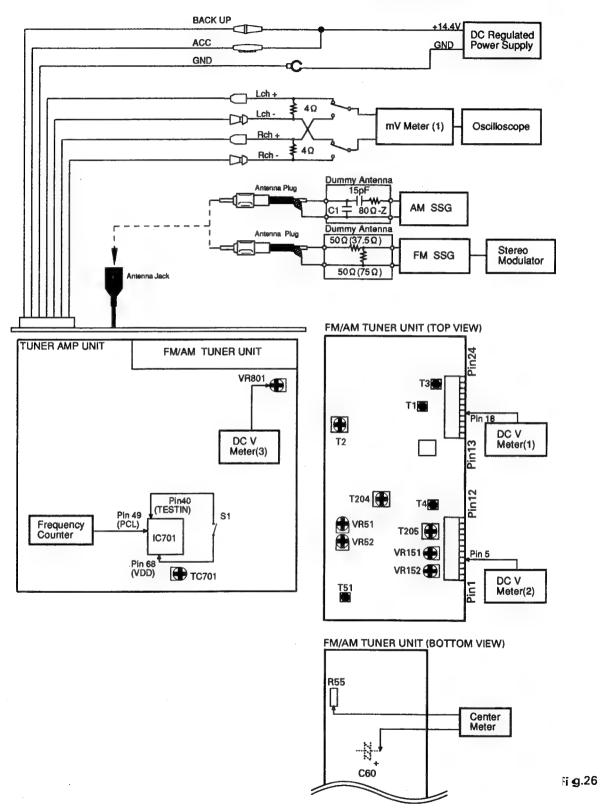
6.2 TUNER/AUDIO ADJUSTMENT

●Connection Diagram

NOTICE:

Select C1 so that total capacity of 80pF is attained from the direction of the receiver jack.

Z: Output impedance of SSG.



AM ADJUSTMENT(UC, ES MODEL)

(999) : ES Model tuning steps at 9 kHz

				(999) ; E5 MOU	el fullitid areha ar a	KIIZ	
1			AM SSG(40		Displayed	Adjustment	Adjustment Method
		No	Frequency(kHz)		Frequency(kHz)	Point	(Switch Position)
	IC IC	1	1,000 (999)	20	1,000	T204,T205,	mV Meter(1): Maximum
	1115		1,000 (000)				

AM ADJUSTMENT(EW MODEL)

	No	AM SSG(40 Frequency(kHz)	00Hz,30%)	Displayed Frequency(kHz)	Adjustment Point	Adjustment Method (Switch Position)
IE	1	999	20	999	T204,T205,	mV Meter(1): Maximum

FM ADJUSTMENT(UC, ES MODEL)

(108): ES Model

Modulation M:MONO MOD., 400Hz 100%(75kHz Dev.)

S:STEREO MOD., 1kHz, L or R=90%, Pilot=10%(67.5kHz+7.5kHz Dev.)

NOTE:Before proceeding to further adjustments after switching power ON, let the tuner run for ten minutes to allow the circuits to stabilize.

		FM SSG		Displayed	Adjustment	Adjustment Method				
	NIO	Frequency(MHz)	Level(dBf)	Frequency(MHz)	Point	(Switch Position)				
TUN Volt		107.9 M (108)	65	107.9	T4	DC V Meter(1): 6.5V±0.1V				
IF	1	98.1 M	65	98.1	T51	Center Meter:0				
ANT,RF	1	98.1 M	10	98.1	T1,T3	mV Meter(1) : Maximum				
IFT	1	98.1 M	10	98.1	T2	mV Meter(1) : Maximum (AUTO ON)				
Soft	1	98.1 M	65	98.1		mV Meter(1) : A (AUTO ON)				
Mute	2	98.1 M	15	98.1	VR52	mV Meter(1): A-3dB				
MPX	1	98.1 S	65	98.1	VR152	mV Meter(1): Separation Maximum				
ARC	1	98.1 S	40	98.1	VR151	mV Meter(1) : Separation 5dB				
SD	1	98.1 S	22	98.1	VR51	DC V Meter(2) : Approx. 5V				

FM ADJUSTMENT(EW MODEL)

Modulation M:MONO MOD., 400Hz 100%(75kHz Dev.)

S:STEREO MOD., 1kHz, L or R=90%, Pilot=10%(67.5kHz+7.5kHz Dev.)

NOTE:Before proceeding to further adjustments after switching power ON, let the tuner run for ten minutes to allow the circuits to stabilize.

		FM SSG	i	Displayed	Adjustment	Adjustment Method					
	No	Frequency(MHz)	Level(dBf)	Frequency(MHz)	Point	(Switch Position)					
TUN Volt		108.0 M	65	108.0	T4	DC V Meter(1): 6.5V±0.1V					
IF	1	98.1 M	65	98.1	T51	Center Meter:0					
ANT,RF	1	98.1 M	10	98.1	T1,T3	mV Meter(1) : Maximum					
IFT	1	98.1 M	10	98.1	T2	mV Meter(1): Maximum					
16.1	'	30.1 141				(AUTO ON)					
Soft	1	98.1 M	65	98.1		mV Meter(1): A					
Mute	'	30.1 141				(AUTO ON)					
Mute	2	98.1 M	15	98.1	VR52	mV Meter(1): A-3dB					
MPX	1	98.1 S	65	98.1	VR152	mV Meter(1): Separation Maximum					
ARC	1	98.1 S	40	98.1	VR151	mV Meter(1): Separation 5dB					
SD	1	98.1 S	22	98.1	VR51	DC V Meter(2): Approx. 5V					
SU	'	30.1 3				(SEEK:ON)					

FM SL ADJUSTMENT(EW MODEL)

	<u></u>	Modulation MO	<u>NO MOD., 400</u>)Hz 100%(75kHz Dev	(.)	
		FM SSC	3	Displayed	Adjustment	Adjustment Method
	No.	Frequency(MHz)	Level(dBf)	Frequency(MHz)	Point	(Switch Position)
ĺ	1	106.1	52	106.1		DC V Meter(3) : 2.35V±0.05V
						DO 1 MICIOI(3/ . 2.334 TO.034

CLOCK ADJUSTMENT(UC,ES MODEL)

No.	Adjustment Point	Adjustment Method
1		Pin40 of IC701 connect to pin68(VDD)
2	TC701	Frequency Counter: 1.048576MHz±2Hz

7. ELECTRICAL PARTS LIST

NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/OSOOOJ,RS1/OOSOOOJ

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

=====Circuit Symbol & No. Part Name=====	Part No.	====Circuit Symbol & No. Part Name====	Part No. RS1/16S563J RS1/16S152J RS1/16S473J RS1/16S474J		
Unit Number : CWE1312 Unit Name : FM/AM Tuner Unit (DEH-P705/UC,P703/ES,P605/UC,P		R 7 14 FI 8 R 9 R 11			
MISCELLANEOUS		R 12	RS1/16S123J		
IC 1 IC 2 Q 1 Q 2 202 Q 3	PA2021A PA2022A 3SK195 2SC2712 DTC124EU	R 13 15 217 R 17 206 R 21 22 R 51 74 R 52	RS1/16S563J RS1/16S102J RS1/16S560J RS1/16S391J RS1/16S152J		
Q 51 Q 52 Q 201 D 1 D 2 3 4	DTC124TU 2SC4207 2SK435 1SV172 KV1410	R 53 R 54 R 55 157 R 56 R 58 73 203	RS1/16S751J RS1/16S393J RS1/16S682J RS1/16S332J RS1/16S102J		
D 5 D 6 151 201 202 D 203 L 1 Inductor L 2 52 Ferri-inductor	MA151WK MA157 SVC203CP LCTBR12K2125 LAU150K	R 72 R 101 R 102 222 R 103 R 104	RS1/16S391J RS1/16S224J RS1/16S822J RS1/16S223J RS1/16S822J		
L 51 Ferri-Inductor L 201 Ferri-Inductor L 202 Coil 1mH L 203 Inductor L 204 Ferri-Inductor	LAU2R2K LAU4R7K CTF1026 LAU390K LAU680K	R 151 152 R 153 R 154 155 202 R 156 R 158	RS1/16S272J RS1/16S103J RS1/16S103J RS1/16S153J RS1/16S393J		
L 205 Ferri-Inductor L 206 Inductor T 1 Coil T 2 Coil T 3 Coil	LAU330K CTF1198 CTC1078 CTE1077 CTC1077	R 159 216 R 204 213 R 205 R 207 R 208	RS1/16S103J RS1/16S222J RS1/16S823J RS1/16S225J RS1/16S752J		
T 4 Coil T 51 Coil T 202 Coil T 203 Coil T 204 Coil	CTC1079 CTC1081 CTB1103 CTE1076 CTE1074	R 209 R 214 R 215 R 218 R 220	RS1/16S822J RS1/16S333J RS1/16S330J RS1/16S333J RS1/16S100J		
T 205 Coil CF 1 51 52 Ceramic Filter CF 201 Ceramic Filter CF 202	CTE1075 CTF1290 CTF1291 CTF1300	R 221 R 223 CAPACITORS	RS1/16S473J RS1/16S563J		
X 151 Ceramic Resonator X 201 Crystal Resonator VR 51 Semi-fixed 22kΩ(B) VR 52 Semi-fixed 68kΩ(B) VR 151 Semi-fixed 10kΩ(B) VR 152 Semi-fixed 22kΩ(B)	CSS 1308 CSS 1111 CCP 1208 CCP 1211 CCP 1206 CCP 1208	C 1 54 C 2 C 3 102 103 154 163 203 210 C 4 12 C 5 53	CCSRCH220J50 CCSRCH390J50 CKSQYB473K16 CCSRCH070D50 CCSRCH270J50		
AR 1 Capacitor with Discharge Gap RESISTORS	DSP-201M	C 6 C 7 C 8 105 C 9 16 C 10	CKSRYB222K50 CCSRCH040C50 CKSRYB222K50 CCSRCH470J50 CCSRCH090D50		
R 1 R 2 R 3 10 16 18 20 R 4 5 R 6	RS1/16S223J RS1/16S271J RS1/16S223J RS1/16S0R0J RS1/16S680J	C 11 C 13 C 14 C 15 22 55 101 151 164 219 220 225 C 17	CKSRYB223K25 CCSRCH070D50 CKSQYB103K25		

====Circuit Symbol &	No. Part Name=====	Part No.	====Circuit Symbol & N	lo. Part Name====	Part No.
C 18		CCSRCH080D50	L 206	Inductor	CTF1198
19 20 21 52 23	62 71 74 201 207	CKSRYB103K50	T 1	Coil	CTC1078
23 24 29 73 106		CEA3R3M50LL	·T 2	Coil	CTE1077
24 29 73 106	213	CKSRYB223K25			
25		CKSRYB682K50	Т 3	Coil	CTC1077
			T 4	Coil	CTC1079
26 28 231 51 223		CEA101M16LL	T 51 -	Coil	CTC1081
51 223		CKSRYB103K50	T 202	Coil	CTB1102
56 162 211		CEA010M50LL	T 203	Coil	CTE1076
57 64 66 2 37		CCSRCH101J50			
58		CKSRYB153K25	T 204	Coil	CTE1074
			T 205	Coil	CTE1075
60		CEAR47M50LL	CF 1 51 52		CTF1292
61		CEAR22M50LL	CF 201	Ceramic Filter	CTF1291
63		CKSQYB104K25	CF 202		CTF1300
65		CEA0R1M50LL			
104		CEA4R7M35LL	X 151	Ceramic Resonator	CSS1308
			X 201	Crystal Resonator	CSS1111
152 153		CKSRYB333K16	VR 51	Semi-fixed 47kΩ(B)	CCP1210
155		CEAR15M50LL	VR 52	Semi-fixed 68kΩ(B)	CCP1211
156		CKSQYB333K25	VR 151	Semi-fixed 10kΩ(B)	CCP1206
158 212		CEA100M16LL			
159		CCSRCH331J50	VR 152	Semi-fixed 22kΩ(B)	CCP1208
			AR 1 Capac	itor with Discharge Gap	DSP-201M
160		CSZS010M16			
161		CKSQYB104K25	RESISTORS	•	
202		CKSRYB332K50			
204		CCSRCH120J50	R 1		RS1/16S223
205		CCSRCH560J50	R 2		RS1/16S27
			R 3 10 16 18	20	RS1/16S22
206 221		CCSRCH680J50	R 4 5		RS1/16S0R
208		CEA470M16LL	R 6		RS1/16S680
209 215 228		CKSRYB103K50			
214 230		CKSRYB472K50	R 7 14		RS1/16S563
216		CCSRCH100D50	R 8		RS1/16S152
•			R 9		RS1/16S473
217		CCSRCH221J50	R 11		RS1/16S474
218 234		CEA220M16LL	R 12		RS1/16S123
222		CCSRCH150J50			
224		CCSRCH181J50	R 13 15 217		RS1/16S563
226		CEA4R7M35LL	R 17 206		RS1/16S102
			R 21 22		RS1/16S560
229		CEAR68M50LL	R 51 74		RS1/16S391
232		CCSRCH390J50	R 52		RS1/16S152
233		CKSRYB332K50			
235		CKSQYB104K25	R 53		RS1/16S751
236		CKSRYB223K25	R 55 157		RS1/16S682
			R 56		RS1/16S332
			R 58 73 203		RS1/16S102
it Number : CWE131			R 60		RS1/1BS123
it Name : FM/AM	Tuner Unit(DEH-P705RDS/EW)				
			R 72		RS1/16S391
SCELLANEOUS			R 101		RS1/18S224
			R 102 222		RS1/16S822
1		PA2021A	R 103		RS1/18S223
2		PA2022A	R 104		RS1/15S822
1		3SK195			,
2 202		2SC2712	R 151 152		RS1/15S272
3		DTC124EU	R 153		RS1/15S103
			R 154 155 202		RS1/15S103
51		DTC124TU	R 156		RS1/15S153
52		2SC4207	R 158		RS1/15S183
53		2SA1586			
201		2SK435	R 159 216		RS1/15S103
1		1SV172	R 204 213		RS1/15S222
			R 205		RS1/15S823
2 3 4		KV1410	R 207		RS1/15S225
5		MA151WK	R 208		RS1/16S752
6 151 201 202		MA157			
203		SVC203CP	R 209		RS1/16S822
1	Inductor	LCTBR12K2125	R 214		RS1/16S333
			R 215		RS1/165330
2 52	Ferri-Inductor	LAU150K	R 218		RS1/15S333
51	Ferri-Inductor	LAU2R2K	R 220		RS1/16S100
201	Ferri-Inductor	LAU4R7K			
202	Coil 1mH	CTF1026	R 221		RS1/1;5473
203	Inductor	LAU390K	R 223		RS1/1; \$563
204	Ferri-Inductor	LAU680K			
205	Ferri-Inductor	LAU330K			

#==	==Cir	cuit S	Symb	ol & l	No. P	art P	Vame:				Part No.	===	==Ci	ircuit	Syml	ool &	No. P	art I	Nam-	e====	=	 Part No.
CAS		ORS										IC	551									PA3027A
C	1 2	54									CCSRCH220J50 CCSRCH390J50	IC IC	652 701 702									MC14052BF PD4481A PA0051AM
C	3	12	103	154	163	203	210				CKSQYB473K16 CCSRCH070D50 CCSRCH270J50	IC IC	951 952									PML001A PAJ001A
С	5	53										IC	953	454								PA2023A DTC343TK
000	6 7 8	105									CKSRYB222K50 CCSRCH040C50 CKSRYB222K50 CCSRCH470J50	Q		456 460		458						DTC143TK UN2211
C	9 10	16									CCSRCH090D50	Q	501 502									2SC3098 2SC3295
C	11 13										CKSRYB223K25 CCSRCH070D50	_	503 504	506 507								2SK208 2SC2712
С	14 15	22	EE	101	151	164	210	220	225	227	CKSQYB103K25 CKSQYB104K25	Q	551	552	553	704	752	754	756	•		UN2211
C	17	22	95	101	151	104	2.10	220	220		CCSRCH100D50	_	631 633	632								DTC314TK DTA124EK
С	18										CCSRCH080D50	Q	641	642								DTC314TK
С	19	20	21	52	62	71	74	201	207		CKSRYB103K50 CEA3R3M50LL			781 953								2SD601A UN2111
C	23 24	29	73	106	213	1					CKSRYB223K25			000								
Č	25										CKSRYB682K50		702	755								DTC124EK 2SA1162
С	26	28	231								CEA101M16LL	Q	705									UN2211
č	51	223	201								CKSRYB103K50			753								2SB1238 2SA1162
C	5 6 57	162 64	211	237							CEA010M50LL CCSRCH101J50	ū	771									23A1102
c	58	04	00	237							CKSRYB153K25		952									2SD2396 2SD1859
_	60										CEAR47M50LL	_	955 451									MA151K-MH
C	61										CEAR22M50LL	D		502								MA3027H
С	63										CKSQYB104K25 CEA0R1M50LL	D	503	771	955							MA151WK-MT
C	65 104								,		CEA4R7M35LL	D		958								MA151WA-MN MA151WK-MT
С	152	153									CKSRYB223K25	D	701 703	702								MA3180M MA151K-MH
C	155 156										CEAR15M50LL CKSQYB563K16	D		752	753							MA153-MC
č	158	212									CEA100M16LL		754	781	0E2							155133
С	159										CCSRCH331J50	D	951	952		960	961					ERA15-02VH HZS9LC3
C	160										CSZS010M16 CKSQYB104K25	D	956 959									HZS6LB1
C	161 202										CKSRYB332K50	Ĺ	451				F	erri-la	duct	or		LAU100K
С	204										CCSRCH120J50	L	501				F	erri-In	duct	or		CTF-157
С	205										CCSRCH560J50	ī		701				erri-In				LAU2R2K
С	206	221									CCSRCH680J50			552				iode				CWW1338 CSS1011
C	208 209	215	228	1							CEA470M16LL CKSRYB103K50	X	501 701				_	esona		onato		CSS1303
C	214 216	230									CKSRYB472K50 CCSRCH100D50	_	701				S	witch	(Res	et)		CSG1020 CCG1003
С	217										CCSRCH221J50		951 701 :					rimm				CCG-070
č		234									CEA220M16LL		701					uzzer		er Un	i.	CPV1011 CWE1312
C	222 224										CCSRCH150J50 CCSRCH181J50	10	JN70				-	WVAN	n ius	ier On	11.	CVILISIZ
Č	226										CEA4R7M35LL	RE	SIST	ORS								
С	229	,									CEAR68M50LL											
C	232	2									CCSRCH390J50	R		427 431		429						RS1/10S163J RS1/10S623J
C	233 235										CKSRYB332K50 CKSQYB104K25	R		433								RS1/10S513J
č	236										CKSRYB223K25	R	434 436			499				3 520 8 6 59		RS1/10S472J RS1/10S104J
																					. , , ,	
U	nit N	umbe					7705/U					R R		3 439 2 443		441	459	460	U			RS1/10S303J RS1/10S331J
U	nit N	ama				DEH-F Unit	265/U	L)				R	444	445	45	1 452	453	3 45	4			RS1/10S272J
		LLAN										R R	448 448	3 447 3 449								RS1/10S103J RS1/10S273J
											XRA3131FS	R	457	7 458	3							RS1/10S163J
	45°										TA2050S	R	461	462	2						0	RS1/10S181J
IC	453	3									PM0004AM1 NJM4558MD	R R				9 480 7 647				17 51 33	5	RS1/10S102J RS1/10S223J
	454 50	1 63° 1	1 64	1 65	ı						LC72140M	R		7 468								RS1/10S153J

====Circuit Symbol & No. Part Name=====	Part No.	=====Circuit Symbol & No. Part Name=====	Part No.
469 470	RS1/10S163J	R 775 783	RS1/10S473J
471 472	RS1/10S222J	R 781 951	RS1/10S103J
473 474	RS1/10S303J	R 885 886 971	RS1/10S0R0J
475 476	RS1/10S153J	R 952	RS1/10S164J
477 478	RS1/10S113J	R 953	RS1/10S683J
481 482	RS1/10S561J	R 957	RS1/10S134J
483 490 491 492 967	RS1/10S562J	R 958	RS1/10S184J
484 485 486 487 509 514 568 570	RS1/10S103J	R 959	RS1/10S472J
488 489	RS1/10S153J	R 962 972	RD1/4PS221JL
493 494 495 496 543 974	RS1/10S0R0J	R 964	RS1/10S472J
497 498 501 573 502 503 645 646 504	RS1/10S222J RS1/10S101J RS1/10S332J RS1/10S821J RS1/10S331J	R 965 R 966 R 969 CAPACITORS	RS1/10S102J RS1/10S104J RD1/4PS220JL
505	RS1/10S680J	C 429 430	CKSQYB102K50
506 515 516 524 530 531 532 533 725	RS1/10S222J	C 433 434 435 436 437 438 439 440	CKSQYB822K50
508 567 716 968	RS1/10S221J	C 441	CEA470M6R3LL
512	RS1/10S152J	C 442 443	CEAR33M50LL
519 520 521 544 665 705 706 723 735 7	736 RS1/10S102J	C 444 445	CKSQYB472K50
522	RS1/10S123J	C 446 447 448 457 458 463 464 473 475	CEA100M16LL
525	RS1/10S222J	C 449 514 706	CEA4R7M35LL
528 534 535 536 709 733 734	RS1/10S473J	C 451 452	CEA010M50LL
529	RS1/10S822J	C 453 454	CEA010M50LL
538 556 557 558 569 571 722 727	RS1/10S472J	C 455 456	CEA4R7M35LL
539 758 955	RS 1/10S563J	C 459 460 461 462	CEA0 10M50LL
540	RS 1/10S330J	C 465 466	CCSQCH270J50
551 552	RS 1/10S2R2J	C 467 468	CCSQCH151J50
555 751 752 753 754 755 756	RS 1/10S472J	C 469 470 647 648	CKSQYB221K50
559 560 561 562 563 564 565 566	RS 1/10S2R2J	C 471	CEA2R2M50LL
572	RS1/10S103J	C 472	CKSQYB103K50
631 632 644	RS1/10S153J	C 476 489 490 492 570 635 636 645 646	CEA100M16LL
633 634	RS1/10S821J	C 477 478	CKSQYB333K50
635 636 954	RS1/10S223J	C 479 480	CKSQYB683K16
637 638	RS1/10S103J	C 481 482 483 484	CKSQYB682K50
639 640 883 884	RS1/10S0R0J	C 485 486 501	CKSQYB681K50
641 642	RS1/10S103J	C 487 488	CKSYB224K16
643	RS1/10S153J	C 491	CEA101M10LL
651 652	RS1/10S243J	C 493 495 497	CKSYF105Z16
660	RS1/10S105J	C 494 496	CEA010M50LL
661 662	RS1/10S103J	C 498	CKSYB224K16
663	RS1/10S513J	C 499 500 567 568 965	CKSQYB104K16
664	RS1/10S333J	C 502 505 507 511 704 781	CKSQYB103K50
701	RS1/10S620J	C 503 504 705	CCSQCH101J50
702 703	RS1/10S101J	C 506 4.7 μ F/16V	CCH1005
704	RS1/8S103J	C 508 0.047 μ F	CCG1008
707 713	RS1/10S823J	C 510	CFTNA474J50
708 714	RS1/10S183J	C 512 516	CKSQ YB223K50
711	RS1/10S473J	C 513 515	CCSQ CH101K50
715	RS1/10S822J	C 517	CCSQ CH221J50
717 718 719 963	RS1/10S221J	C 518 519	CCSQCH120J50
720 956	RS1/10S683J	C 520 522	CKSQCH101K50
721	RS1/10S392J	C 521	CKSQYB473K16
724	RS1/10S563J	C 551 552 553 554	CEA2ZOM6R3LL
728	RS1/10S683J	C 555 566 557 558 658 701 702 707	CKSQYB102K50
729 731 732	RS1/10S473J	C 559 560 561 562 563 564 565 566	CKS0YB104K16
730	RS1/10S682J	C 569	CEA330M16LL
737 782 960 961	RS1/10S473J	C 571 3300 μ F/16V	CCH1150
738	RS1/10S333J	C 572 956 1000 μ F/16V	CCH11649
757	RS1/10S100J	C 633 634 643 644	CCS04CH121J50
759 761 772 773	RS1/10S472J	C 637 638	CKS0YB221K50
760 762	RD1/4PS272JL	C 639 640	CKS0YB103K25
764	RS1/10S222J	C 652	CKS0YB273K50
771	RS1/10S183J	C 653 709 710 711 951 957	CKS0YB473K60
774	RS1/10S102J	C 654	CKS0YB223K50

====Circuit Symbo	& No. Part Name	==== F	Part No.	====Circuit Symbol & No. Part Name=====	Part No.
C 655 C 656 C 657 C 659 703 C 708			CKSQYB153K50 CKSQYB273K50 CKSQYB103K50 CCSQCH330J50 CCSQCH120J50	Unit Number : CWX1616 Unit Name : Tuner Amp Unit(DEH-P705RDS/EW) MISCELLANEOUS	
C 712 C 713 C 751 C 752 753 754 C 952		(CKSQYB104K16 CKSYB224K16 CKSQYB103K25 CKSQYB104K16 CKSQYB472K50	IC 451 IC 452 IC 453 IC 454 631 641 651 IC 501	XRA3131FS TA2050S PM0004AM1 NJM4558MD LC72140M
C 953 C 954 C 955 C 958 C 959	470 μ F/16V 330 μ F/10V		CKSQYB473K50 CKSQYB103K25 CEAR22M50LL CCH-114 CCH1181	IC 551 IC 652 IC 701 IC 702 IC 801	PA3027A MC14052BF PD4481A PA0051AM PMR001A
C 960 962 C 961 C 963 C 964 C 966			CEA470M10LL CEA101M10LL CEA220M16LL CKSQYB103K50 CEA2R2M50LL	IC 802 IC 803 IC 951 IC 952 IC 953	PD0191A SC14SU69F PML001A PAJ001A PA2023A
	DEH-P705/UC CWX1619 Part No.	DEH-P703/ES CWX1620 Part No.	DEH-P605/UC CWX1615 Part No.	Q 453 454 Q 455 456 457 458 Q 459 460 705 954 Q 501	DTC343TK DTC143TK UN2211 2SC3098
IC631 IC651	NJM4558MD NJM4558MD	NJM4558MD		Q 502	2SC3295
IC652	MC14052BF			Q 503 506	2SK208 2SC2712
Q631,632 Q651	DTC314TK 2SD601A	DTC314TK		Q 504 507 508 801 802 Q 551 552 553 704 752 754 756 Q 631 632	UN2211 DTC314TK
R631,632 R633,634	RS1/10S153J RS1/10S821J	RS1/10S153J RS1/10S821J		Q 633	DTA124EK
R635,636	RS1/10S223J	RS1/10S223J		Q 641 642	DTC314TK
R637,638	RS1/10S103J	RS1/10S103J		Q. 651 Q. 701 953	2SD601A UN2111
R639,640	RS1/10S0R0J	RS1/10S0R0J		Q 701 953 Q 702 803	DTC124EK
R649		RS1/10S0R0J	RS1/10S0R0J	Q 703 755	2SA1162
R650 R651,652	RS1/10S243J	RS1/10S0R0J	RS1/10S0R0J	Q 751 753	2SB1238
R654,655,656	RS1/10S104J			Q 771	2SA1162
R657,658,659	RS1/10S104J	*****		Q. 781 Q. 804	2SD601A 2SC4944
R660	RS1/10S105J			Q 805	2SA1162
R661,662	RS1/10S103J				
R663	RS1/10S513J	****		Q 952	2SD2396
R664	RS1/10S333J			Q 955 D 451	2SD1859 MA151K-MH
R665	RS1/10S102J			D 501 502	MA3027H
R707	RS1/10S823J	RS1/10S563J	RS1/10S823J	D 503 771 955	MA151WK-MT
R708	RS1/10S183J	RS1/10S433J	RS1/10S183J	D. 404	A44 4541414 B411
R711	RS1/10S473J	RS1/10S303J	RS1/10S433J	D 631 D 632 958	MA151WA-MN MA151WK-MT
R712 R713	RS1/10S823J	RS1/10S683J	RS1/10S563J RS1/10S823J	D 701 702	MA3180M
17.19	110 1/ 1000200			D 703 802	MA151K-MH
R714	RS1/10S183J	RS1/10S473J	RS1/10S183J	D 751 752 753	MA153-MC
R883,884	RS1/10S0R0J	RS1/10S0R0J		D 754 701 053	100122
R885,886	RS1/10S0R0J	RS1/10S0R0J		D 754 781 953 D 801	1SS133 MA3047M
C633,634	CCSQCH121J50	CCSQCH121J50		D 951 952 954 960 961	ERA15-02VH
C635,636	CEA100M16LL	CEA100M16LL		D 956	HZS9LC3
C637,638	CKSQYB221K50	CKSQYB221K50		D 959	HZS6LB1
C652,656	CKSQYB273K50			L 451 Ferri-Inductor	LAU100K
C653	CKSQYB473K50			L 501 Ferri-Inductor	CTF-157
C654	CKSQYB223K50			L 502 701 Ferri-Inductor	LAU2R2K
C655	CKSQYB153K50			L 801 802 Ferri-Inductor	LAU101K
C657	CKSQYB103K50			IB 551 552 Diode Array	CWW1338
C658	CKSQYB102K50			X 501 Crystal Resonator	CSS1011
C659	CCSQCH330J50			X 701 Resonator	CSS1303
				X 801 Crystal Resonator	CSS1056
				S 701 Switch(Reset)	CSG1020
				VR 801 Semi-fixed 2.2kΩ(B)	CCP1123

==		Jircu	t Sym	bol 8	No.	Part	Nam	e===	== 		Part No.			Circui	t Syn	lode	k No.	Part	Nan	1e===			Part No.
BZ TL	951 701 JN70	1				uzzer M/AN		er Ur	it		CCG1003 CPV1011 CWE1313	R R R	701 702 704 711 715	703	3								RS1/10S620J RS1/10S101J RS1/8S103J RS1/10S473J RS1/10S822J
R R R R		43: 43: 43:	3 5 450	499	500	511 657	523 658	3 52 (3 65 (6 521 9 739	7 53 9 81	RS1/10S163J RS1/10S623J RS1/10S513J 7 RS1/10S472J 5 RS1/10S104J	R R	717 720 721 724 728	956		963	•						RS1/10S221J RS1/10S683J RS1/10S392J RS1/10S563J RS1/10S683J
R R R R	438 442 444 446 448	443 445 447	5	441	459	460)				RS1/10S303J RS1/10S331J RS1/10S272J RS1/10S103J RS1/10S273J	R R R	730	782			841	l 844	845	960	961		RS1/10S473J RS1/10S682J RS1/10S473J RS1/10S333J RS1/10S100J
1		458 462 464	479	480							RS1/10S0R0J RS1/10S163J RS1/10S181J RS1/10S102J RS1/10S223J	R R R	760	761 762 820		773							RS1/10S472J RD1/4PS272JL RS1/10S222J RS1/10S183J RS1/10S102J
	473										RS1/10S153J RS1/10S163J RS1/10S222J RS1/10S303J RS1/10S153J	R R R	781 801 806	783 951 807 817	808	809 832	811 833	812 835	813 846	814 966	818	965	RS1/10S473J RS1/10S103J RD1/4PS101JL RS1/10S102J RS1/10S104J
ł		478 482 490 485 489	491	492 487	967 509	514	568	570			RS1/10S113J RS1/10S561J RS1/10S562J RS1/10S103J RS1/10S153J	R R	821 822 824 838 839	825	826	827	834	836	837				RS1/10S273J RS1/10S333J RS1/10S681J RS1/10S105J RS1/10S332J
	493 497 501 502 503	498 573	495 646	496	543	974					RS1/10S0R0J RS1/10S222J RS1/10S101J RS1/10S332J RS1/10S821J	R R R		886	971								RS1/10S0R0J RS1/10S164J RS1/10S683J RS1/10S134J RS1/10S184J
		515 567 810	516 716	524 968	530	531	532	533	725		RS1/10S331J RS1/10S680J RS1/10S222J RS1/10S221J RS1/10S152J	R R	969	972 TORS									RS1/10S472J RD1/4PS221JL RS1/10S472J RD1/4PS220JL
:	522 525		521 535							802	RS1/10S102J RS1/10S123J RS1/10S222J RS1/10S473J RS1/10S822J	C	429 431 433 441 442	432 434	435	436	437	438	439	440			CKSDYB102K50 CCSDCH102J50 CKSDYB822K50 CEA+70M6R3LL CEAR33M50LL
!		758	557 955	558	569	571	722	727	803		RS1/10S472J RS1/10S563J RS1/10S330J RS1/10S102J RS1/10S2R2J	C 4	144 146 149 150 151	447 514	448 706	457	458	463	464	473	475		CKSQYB472K50 CEA100M16LL CEA4R7M35LL CKSYB224K16 CEA810M50LL
	559 572	560 632	752 561 6 44					566			RS1/10S472J RS1/10S2R2J RS1/10S103J RS1/10S153J RS1/10S821J	C 4		456 460 466	461	462							CEA(10M50LL CEA(R7M35LL CEA(10M50LL CCSQCH270J50 CCSQCH151J50
6	B 37	640	954 883	884							RS1/10S223J RS1/10S103J RS1/10S0R0J RS1/10S103J RS1/10S153J	C 4 C 4	71 72	470 489 478			570	635	636	645	646	1	CKSQYB221K50 CEAZR2M50LL CKSQYB103K50 CEA1D0M16LL CKSQYB333K50
6	351 360 361 363 364		805								RS1/10S243J RS1/10S105J RS1/10S103J RS1/10S513J RS1/10S333J	C 4 C 4 C 4	79 4 81 4 85 4 87 4	482 486	483 501	484						(CKS(YB683K16 CKS(YB682K50 CKS(YB681K50 CKS(YB224K16 CEAID 1M10LL

====Circuit Symbol & No. Part Name=====	Part No.	====Circuit Symbol & No. Part Name=====	Part No.
C 493 495 497 C 494 496 C 498 C 499 500 567 568 965 C 502 505 507 511 704 781 803 812 816 813	CKSYF105Z16 CEA010M50LL CKSYB224K16 CKSQYB104K16 7 CKSQYB103K50	D 904 D 918 L 901 X 901 S 901 902 903 904 D LED Inductor Ceramic Resonator S witch	MA151WK-MT PRPY1201W LCTB1R0K3216 CSS1084 CSG1041
C 503 504 705 C 506	CCSQCH101J50 CCH1005 CCG1008 CFTNA474J50 CKSQYB223K50	S 905 906 907 908 909 910 911 912 913 914 S 915 916 917 918 919 920 921 922 Switch IL 901 903 905 907 Lamp IL 902 906 908 910 Lamp(DEH-P705/UC,P703/ES IL 902 906 908 910 Lamp(DEH-P705RDS/EW)	CSG1041 CEL1297
C 513 515 C 517 C 518 519 C 520 522 C 521	CCSQCH101K50 CCSQCH221J50 CCSQCH120J50 CKSQCH101K50 CKSQYB473K16	IL 909 911 Lamp LCD901 LCD(DEH-P705/UC,P703/ES) LCD901 LCD(DEH-P705RDS/EW) RESISTORS	CEL1297 CAW1222 CAW1221
C 551 552 553 554 C 555 556 557 558 658 701 702 707 813 C 559 560 561 562 563 564 565 566 C 569 C 571 3300 μ F/16V	CEA220M6R3LL CKSQYB102K50 CKSQYB104K16 CEA330M16LL CCH1150	R 901 902 R 904 905 908 909 R 906 907 910 911 R 912 940 R 916 917	RS1/8S222J RS1/8S332J RS1/8S472J RS1/10S102J RS1/4S821J
C 572 956 1000 μ F/16V C 633 634 643 644 C 637 638 C 639 640 C 652	CCH1149 CCSQCH121J50 CKSQYB221K50 CKSQYB103K25 CKSQYB273K50	R 918 919 R 920 R 921 R 922 R 923 924 925 926 927 928 929 930 931 932	RS1/8S471J RS1/10S2R2J RS1/8S121J RS1/10S473J RS1/10S471J
C 653 7 09 710 711 805 951 957 C 654 C 655 C 656 C 657	CKSQYB473K50 CKSQYB223K50 CKSQYB153K50 CKSQYB273K50 CKSQYB103K50	R 934 R 938 CAPACITORS	RS1/8S183J RS1/10S562J
C 659 703 C 708 C 712 C 713 C 751	CCSQCH330J50 CCSQCH270J50 CKSQYB104K16 CKSYB224K16 CKSQYB103K25	C 901 902 903 906 909 C 904 905 C 907 C 908	CKSQYB103K25 CEV100M16 CKSQYB102K50 CKSQYB104K16
C 752 753 754 C 801 814 C 802 C 804 C 806 815 952	CKSQYB104K16 CEA100M16LL CEA1R5M50LL CEAR33M50LL CKSQYB472K50	DEH-P705/UC DEH-P605/UC DEH-P703/ES DEH-P65/UC CWX1628 CWX1623 Part No. Part No. IC902 RS-30	
C 807 808 C 809 C 810 C 818 964 C 820 821	CSZS010M16 CSZS3R3M10 CKSQYB103K50 CKSQYB103K50 CCSQCH180J50	Unit Number : CWX1693 Unit Name : Control Unit MISCELLANEOUS	
C 823 C 953 C 954 C 955 C 958 470 μ F/16V	CEAR47M50LL CKSQYB473K50 CKSQYB103K25 CEAR22M50LL CCH-114	IC 351 IC 601 IC 602 IC 651 IC 653	UPC1347GS UPD6374AGH XRA4558F PA3026 XRA4558F
C 959 330 μ F/10V C 960 962 C 961 C 963 C 966	CCH1181 CEA470M10LL CEA101M10LL CEA220M16LL CEA2R2M50LL	IC 701 IC 702 IC 703 IC 751 IC 752	UPD6375GC TC9237F TA2009F PD5256A MB3854PF
C 969 970 Unit Number: CWX1626(DEH-P705/UC,P703/ES): CWX1624(DEH-P705RDS/EW)	CKSYB224K16	Q 351 Q 601 Q 651 652 Q 654 Q 701 702	2SB1260 2SB709A 2SB1184F5 DTC114EK 2SD1781K
Unit Name : Key Board Unit MISCELLANEOUS IC 901 IC 902 Q 901 902 903 904 Q 905 906 907 D 901 902	PD6122A RS-30 2SB1132 UN2211 MA153-MC	Q 704 Q 752 753 Q 754 Q 755 Q 756	2SB709A DTA114EK DTC114EK 2SD1760F5 2SD1030

DEH-P705,P65,P605,P703,P705RDS

651 652 701 757 758 701 Indu	SC016-2 MA151WA-MN HZMGR8NB2	R 766 R 767 768 R 769 770	RS1/16S473J RS1/16S224J
757 758 701 Indu H 752 Ther	HZM6R8NB2		
758 701 Indu H 752 Ther		P 760 770	
701 Indu H 752 Ther	8484548 848	n /09 //U	RS1/16S104J
H 752 Ther	MA151A-MA	R 774	RS1/16S103J
	ctor LCTBR39K2125	R 775	RS1/16S104J
	mistor CCX1015	R 778	DO4-44004004
	tal Resonator CSS1067	R 780	RS1/16S103J
_	mic Resonator CSS1084	R 781 782	RS1/16S104J
			RS1/16S362J
	i-fixed 22kΩ(B) CCP1183 i-fixed 47kΩ(B) CCP1185	R 783 784 785 786 787 R 788	RS1/16S681J
1 302 303 300 Selli	Filled 4/kt/(b) CCF F105	R 700	RS1/16S102J
	-fixed 2.2kΩ (B) CCP1177	R 791 792	RS1/8S391J
Chec	ker Chip CKF1025	R 794	RS1/16S151J
		R 795 R 799	RS1/16S0R0J
SISTORS		n 799	RS1/10S1R5J
		CAPACITORS	
351	R\$1/8\$100J		
353	RS1/16S623J	C 351	CEV470M16
354 757 779	RS1/16S473J	C 352	CKSQYB104K
355	RS1/16S122J	C 353	CEV101M6R3
356	RS1/16S683J	C 354 355	CSZSR4R7M1
		C 357 359 366	CKSRYB102K
357	RS1/16S683J		
358 359	RS1/16S332J	C 358	CKSRYB331K
360	RS1/16S684J	C 360	CKSRYB271K
361	RS1/16S153J	C 361	CCSRCH220J
362	RS1/8S120J	C 601	CKSRYB222K
		C 603	CKSRYB331K
364	RS1/16S102J	0 004 000 000 000	
369	RS1/16S103J	C 604 606 652 703 704	CKSYB224K1
375 377 713	RS1/16S102J	C 605	CKSYB103K2
379	RS1/16S513J	C 607 654 759	CKSYB224K1
380	RS1/16S104J	C 608	CSZS010M16
*		C 609 610 761	CEV100M16
381 382	RS1/16S133J		
601 602 603 604 605 6		C 611 701 707 710	CKSRYB103K
606	RS1/16S224J	C 653 220 μ F/10V	CCH1148
609 611 612 613 665	RS1/16S102J	C 655	CKSRYB391K
614 615	RS1/16S472J	C 658 220 μ F/10V	CCH1148
		C 665	CEV101M10
616	RS1/16S102J		
617	RS1/8S0R0J	C 666	CKSQYB102K
618	R\$1/8\$103J	C 670	CKSQYB272K
619 620	RS1/8S102J	C 671	CKSRYB103K
652 654	RS1/16S162J	C 672	CKSQYB333K
055	204140404	C 702	CEVI 01M6R3
6 55 6 56	RS1/16S183J RS1/16S362J	C 705 706	CCSRCH090D
657	RS1/16S163J	C 712	
663	RS1/10S183J	C 712 C 716	CEV220M6R3
664 753 755			CEV1 00M16
VO4 /03 /00	RS1/16S103J	C 722 723	CEVIR7M35
669 797	DC4/48C4001	C 724	CCSRCH151J
	RS1/16S103J	C 706	000001144
670 676	RS1/10S151J	C 726	CCSRCH100D
676	RS1/16S683J	C 727 728	CKSRYB103K
679 684 701 702 711 712 764	RS1/16S102J RS1/16S102J	C 751 752 753 754 755 C 756	CCSRCH221J
/VI /VZ / II / IZ /04	NS I/ 103 1023	C /30	CKSRYB472K
704 705	RS1/16S162J		
707 708	RS1/16S223J	Unit Number :	
709 710 729 731	RS1/16S0R0J	Unit Name : Switch P.C.Board	
717	RS1/16S301J		
721	RS1/16S472J	D 1 2 3 4 LED	BR4361F
		M 1 Motor(Spindle)	CXM1058
722	RS1/16S162J	M 2 Motor Unit(Carriage)	CXA#649
724	RS1/10S1R0J	M 3 Motor Unit(Loading)	CXA\$267
725	RS1/16S472J	S 1 2 Switch(Home,Clamp)	CSNI 012
730 733 738 798	RS1/16S0R0J	- many many matery	
751	RS1/10S1R0J		
		Unit Number :	
752	RS1/16S183J	Unit Name : Detector P.C.Board	
754 776	RS1/16S472J	D 4 0 0 4 0 -	DT1
	RS1/16S222J	P 1 2 3 4 Photo Transistor	PT48Ø0
	RS1/16S224J		
756 771 772 773 758	DC446C4661		
	RS1/16S102J	Miscellaneous Parts List	

8. EXPLODED VIEW PARTS LIST

- NOTE:

 Parts marked by "* "are generally unavailable because they are not in our Master Spare Parts List."
- Parts marked by "o "are not always kept in stock. Their delivery time may be longer than usual or they may be
- Chassis(Exploded View:Page 2-5)
- Parts List

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Screw	BSZ26P050FMC		Battery Cover	CNS2850
2	Screw	BSZ26P080FMC	42	CD Mechanism Module	CXK2544
	Screw	BSZ26P120FMC	43	Screw	PSS26P080FZK
	Screw	BSZ30P060FMC		Screw	CBA1284
	Screw	BSZ30P120FMC		Handle	CNC4947
5	SCIEW	DOZDOI IZOI IIIO			
6	Cord Assy	CDE4091		Bush	CNV1009
7	Fuse	CEK1136	47	Detach Grille Assy	CXA5739
8	Cap	CNS1472	48	Screw	BPZ20P100FZK
9	Resistor	R\$1/2P102JL	49	Button	CAC3675
	Case	CNB1750	50	Button	CAC3676
11	Holder	CNC3850	51	Button	CAC3681
	Holder	CNC4946		Button	CAC3682
		CNC5130		Button	CAC3683
	Earth Plate			Button	CAC3684
	Insulator	CNM3972			
15	Cushion	CNM3886	55	Button	CAC3685
16	Case	CNS2269	56	Button	CAC3686
	Cap	CNV2680	57	Spring	CBH1407
	Holder	CNV3620		Cushion	CNM3727
	Tuner Amp Unit	CWX1616	59	Cover	CNM3752
	Cord	CDE4097		Cover	CNS2751
21	Antenna Cable	CDH1146	61	Lens	CNV3615
	Plug(CN631)	CKS1242		Lens	CNV3616
	Connector(CN951)	CKM1091		Grille Unit	CXA5692
	Connector(CN751)	CKS2212		Button Unit	CXA6162
				Button Unit	CXA6163
25	Connector(CN702)	CKS2480	03	Button Onit	CAA0103
26	Holder	CNC4881		Key Board Unit	CWX1624
27	Holder	CNC4882	67	Connector(CN901)	CKS2733
28	Bracket	CNC4940	68	Holder	CNC4942
29	Holder	CNC4949	69	Lens	CNV3617
	Holder	CNC5013	70	Holder	CNV3618
21	Spacer	CNM3343	71	Connector	CNV3642
	Insulator	CNM3825		LCD(LCD901)	CAW1221
	Heat Sink	CNR1307		Screw	BPZ20P060FMC
		CKS2149		Spring	CBH1484
	Connector(CN701) FM/AM Tuner Unit	CWE1313		Connector	CKS2780
39	THE THE PARTY OF THE	J1121010			
36	Antenna Jack	CKX1043		Holder	CNC4943
37	Holder	CNC4880		' Holder	CNC4944
	Connector Unit	CXA4720	78	P.C.Board	CNP3473
	Chassis Unit	CXA5701	79	Arm	CNV3696
	Remote Control Assy	CXA5961	80	Arm	CNV3697

Mark No.	Description	Part No.
81	Eject Mechanism Assy	CXA5110
	Panel Unit	CXA5698
83	Screw	PMS20P030FZK
84	IC(IC551)	PA3027A
85	IC(IC953)	PA2023A
86	Transistor(Q952)	2SD2396
87-91	* * * * *	
92	Sheet	CNM3984
93	Earth Plate	CNC5346
94	Cushion	CNM3886
95	Holder	CNC5347
96	Screw	BSZ30P060FMC

●The DEH-P705/UC,DEH-P703/ES,DEH-P605/UC and DEH-P65/UC Parts Lists enumerate the parts which differ from those enumerated in the DEH-P705RDS/EW Parts List only.

The parts other than those enumerated in the former are identical with those in the latter, to which you are requested to refer, accordingly.

The DEH-P705RDS/EW Parts List is given on page 1-54.

		DEH-	DEH-	DEH-	DEH-	DEH-
		P705RDS/EW	P705/UC	P703/ES	P605/UC	P65/UC
No.	Description	Part No.	Part No.	Part No.	Part No.	Part No.
17	Сар	CNV2680	CNV2680	CNV2680	****	CNV2680
19	Tuner Amp Unit	CWX1616	CWX1619	CWX1620	CWX1615	CWX1726
20	Cord	CDE4097	CDE4119	CDE4120		CDE4303
22	Plug(CN631)	CKS1242	CKS1242	CKS1242		CKS1242
26	Holder	CNC4881		• • • • •	• • • • • • • • • • • • • • • • • • • •	
27	Holder	CNC4882				
29	Holder	CNC4949	CNC4949	CNC4949	CNC4951	CNC4949
32	Insulator	CNM3825				
35	FM/AM Tuner Unit	CWE1313	CWE1312	CWE1312	CWE1312	CWE1312
39	Chassis Unit	CXA5701	CXA5700	CXA5700	CXA5700	CXA5700
40	Remote Control Assy	CXA5961	CXA5961	CXA5961		
41	Battery Cover	CNS2850	CNS2850	CNS2850		
63	Grille Unit	CXA5692	CXA5694	CXA5695	CXA5696	CXA5693
66	Key Board Unit	CWX1624	CWX1626	CWX1626	CWX1623	CWX1623
72	LCD(LCD901)	CAW1221	CAW1222	CAW1222	CAW1222	CAW1222
82	Panel Unit	CXA5698	CXA6148	CXA6148	CXA5806	CXA5806
87	Сар	* * * * *			CNV2680	
88	Cord	• • • •	• • • • •		CDE4121	
89	Plug(CN631)	• • • •	****		CKS1238	
90	Panel		CNS2906	CNS2906	CNS2786	CNS2786
91	Spring		CBH-865	CBH-865	CBH-865	CBH-865
93	Earth Plate	CNC5346				
94	Cushion	CNM3886				
95	Holder	CNC5347				
96	Screw	BSZ30P060FMC	••••			

● CD Mechanism Module(Exploded View:Page 2-7)

Parts List

rk No. De	scription	Part No.	Mark No. Description	Part No.
	mper	CNV2882	46 Gear Unit	
2 Ho		CNV2863	47 Connector(4P)	CXA4265
3 Sc		CBA1004	48 Switch(\$1,2)	CKS2088
4 Sp	_	CBH1417	49 Screw	CSN1012
5 Fra	ame	CNC3816	50 LED(D1 4)	CBA1077
			30 LED(D1-4)	BR4361F
6 Gu		CNV2891	51 Gathering P.C.Board	CNX1956
7 Fra		CNC4783	52 Connector(16P)	CKS2064
8 Scr		BMZ20P030FMC	53 Washer	YE20FUC
9 Bra		CNC4687	54 Arm	CNV2884
10 Scr	ew	BMZ20P040FNI	55 Lever Unit	CXA5093
11 Fra		CNC4686	56 Arm	
12 Scr	ew	JFZ20P018FNI		CNV2885
13 Spr		CBL1131	57 Motor(Spindle)	CXM1058
14 Bra		CNC3830	* 58 Support Wheel 59 Screw	CNV2859
15 Clai	mper	CNV2864	60 ·····	HBA-258
16 Arm	n Unit	CXA5090		
17 Spri		CBH1415	61 Spring	CBH1414
18 Was	sher		62 Spring	CBH1424
19 Spri		CBF1039	63 · · · · ·	
20 Spri		CBH1418	64 Spring	CBH1410
_0 ори	ııı 9 _,	CBH1419	65 Spring	CBL1129
21 Arm		CXA5091	66 Screw	157000000
22 Arm		CNV2876	67 Belt	JFZ20P025FMC
23 Was		CBF1038	68 Bracket	CNT1047
24 Shee		CNM3582	69 Holder	CNC3832
25 Gear	r	CNV2875	70 Spring	CNV2878 CBH1413
26 Spri	ng	CBH1423	74.0	
27 Arm	Unit	CXA5383	71 Cover	CNV2889
28 Phot	o-transistor	PT4800	72 Holder	CNV3023
29 Sprii	ng	CBH1449	73 Chassis Unit	CXA4258
30 P.C.B	Board	CNP3125	74 Lever	CNV2874
		0141 5 125	75 Lever	CNC3824
31 Sprir		CBH1420	76 Gear	CN11/0074
32 Leve		CNC3828	77 Arm	CNV2871
33 Rolle	r	CLA1936	78 Gear	CNC3833
34 Screv		JFZ20P018FNI	79 Gear	CNV2872
35 Sprin	g	CBL1130	80 Gear	CNV2883 CNV2873
36 Arm		CXA6176	81 Gear	
37 Sheet		CNM3873	82 Gear	CNV2870
38 Holde		CNV3276		CNV2869
39 Wash		HBF-132	83 Bracket Unit 84 Shaft	CXA4261
40 Sprin	g	CBH1412	85 Motor Unit(Carriage)	CLA2027
41 Roller	r	CNV2225		CXA4649
42 Short			86 Holder	CNV2888
43 Wash		CBL1010	87 Screw Unit	CXA5384
44 Arm	O.	YE15FUC	88 Screw	CBA1082
45 Spring	·	CNC3819	89 Washer	CBF1054
- opinit	b	CBH1421	90 Gear	CNV2892

DEH-P705,P65,P605,P703,P705RDS

Mark No.	Description	Part No.	Mark No.	Description	Part No.
91	Gear	CNV2868	106	Motor Unit(Loading)	CXA4267
92	Bracket Unit	CXA5078		Connector	CKS2063
93	••••		108	Connector	CKS2149
94	Screw	PMS26P040FMC	* 109	Connector	CKS2121
95	Rack	CNV3268	110	Control Unit	CWX1693
96	Spring	CBH1508	111	Weight	CNC5112
97	Bracket	CNC4436		Spring	CBH1458
98	Screw	JFZ17P035FNI	113	Spring	CBH1457
99	Holder Unit	CXA5246	114	Spacer	CNM3315
100	PU Unit	CGY1026	115	CD Mechanism Unit	CXA6196
101	••••		116-118	• • • •	
102	Spring	CBH1422	119	Screw	CBA1230
103	Holder	CNC4306		* * * * *	
104	Screw	JGZ20P070FNI	121	Screw	PMS20P025FMC
105	****				





Service Manual

MULTI-CD CONTROL HIGH POWER CD PLAYER WITH FM/AM TUNER

DEH-P65 oc DEH-P605 oc DEH-P703 ES

MULTI-CD CONTROL HIGH POWER CD PLAYER WITH RDS TUNER

DEH-P705RDS

EW,X1B/EW

CHAPTER 2

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3.1 TUNER AMP UNIT(DEH-P705/UC,DEH-P65/UC)	3.6 FM/AM TUNER UNIT(UC,ES MODEL)2-37
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3.2 TUNER AMP UNIT(DEH-P703/ES,DEH-P605/UC)	
- 2 14	

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1. PACKING METHOD

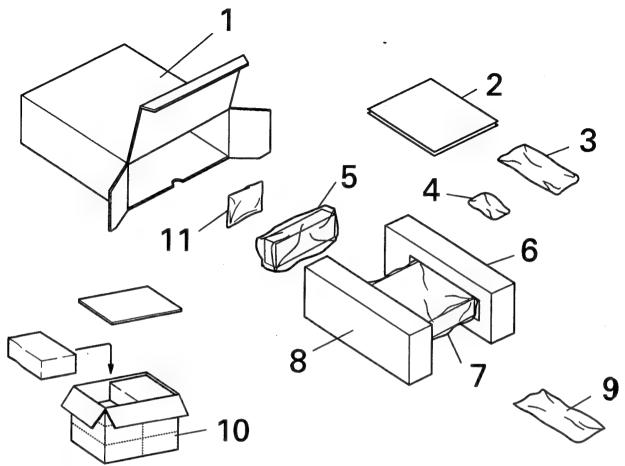


Fig.1

● Parts List(DEH-P705RDS/EW)

Mark	No.	Description	Part No.	Mark i	No.	Description	Part No.
	1	Carton	CHG2377		7	Cover	CEG1092
	2-1	Owner's Manual	CRD1682		8	Protector	CHP1602
	2-2	Owner's Manual	CRD1683		9	Accessory Assy	CEA1917
	2-3	Installation Manual	CRD1684		9-1		CBA1284
*	2-4	Card	CRY-062		9-2	Handle(X2)	CNC4947
*	2-5	Passport	CRY1013		9-3	Bush	CNV1009
	2-6	Polyethylene Bag	CEG1116	*	9-4	Polyethylene Bag	E36-615
	3	Remote Control Assy	CXA5961		10	Contain Box	CHL2377
	4	Accessory Assy	CEA1473		11	Cord Assy	CDE4091
	4-1	Battery	CEX1006			,	0024001
	4-2	Fastener(Rough)	CNM3629				
	4-3	Fastener(Soft)	CNM3630				
*	4-4	Polyethylene Bag	CEG-127				
	5	Case	CNS2269				
	6	Protector	CHP1603				

● The DEH-P705RDS/X1B/EW Parts List enumerates the parts which differ from those for the DEH-P705RDS/EW only. The parts other than those enumerated in the DEH-P705RDS/X1B/EW Parts List are identical with those in the DEH-P705RDS/EW parts List, to which you are requested to refer, accordingly. The DEH-P705RDS/EW parts List is given on page 2-2.

			P705RDS/EW -	P705RDS/X1B/EW
Mark	No.	Description	Part No.	Part No.
*	2-4	Card	CRY-062	CRY-063
*	2-5	Passport	CRY1013	CRY1014
	2-6	Polyethylene Bag	CEG1116	E36-618
	4	Accessory Assy	CEA1473	CEA1489
	4-2		CNM3629	CNM1841
	4-3	Fastener(Soft)	CNM3630	CNM1842
	7	Cover	CEG1092	UEG-001 .
	10	Contain Box	CHL2377	UHD-002

● Parts List(DEH-P705/UC)

Mark	No.	Description	Part No.	Mark No.	Description	Part No.
	1	Carton	CHG2378	9-2	Screw Assy	CEA1924
	2-1	Owner's Manual	CRD1685	9-2-1	Screw	CBA-102
*		Card	ARY1048	9-2-2	Screw	CBA1284
••		Remote Control Assy	CXA5961	9-2-3	Screw(X4)	CRZ50P090FMC
	_	Accessory Assy	CEA1473	9-2-4	Screw(X4)	TRZ50P080FMC
	4-1	Battery	CEX1006	9-2-5	Nut(X2)	NF50FMC
		Fastener(Rough)	CNM3629	# 9-2-6	Polyethylene Bag	CEG-127
		Fastener(Soft)	CNM3630	9-3	Handle(X2)	CNC4947
*		Polyethylene Bag	CEG-127	9-4	Strap	CNF-111
		Case	CNS2269	9-5	Bush	CNV1009
	6	Protector	CHP1603	* 9-6	Polyethylene Bag	CEG-158
		Cover	CEG1092	10	Contain Box	CHL2378
	8	Protector	CHP1602	11	CordAssy	CDE4091
	9	Accessory Assy	CEA1918	•		
	_	Spring	CBH-865			

DEH-P705,P65,P605,P703,P705RDS

■ The DEH-P703/ES,DEH-P605/UC and DEH-P65/UC Parts Lists enumerate the parts which differ from those enumerated those enumerated in the DEH-P705/UC Parts List only.

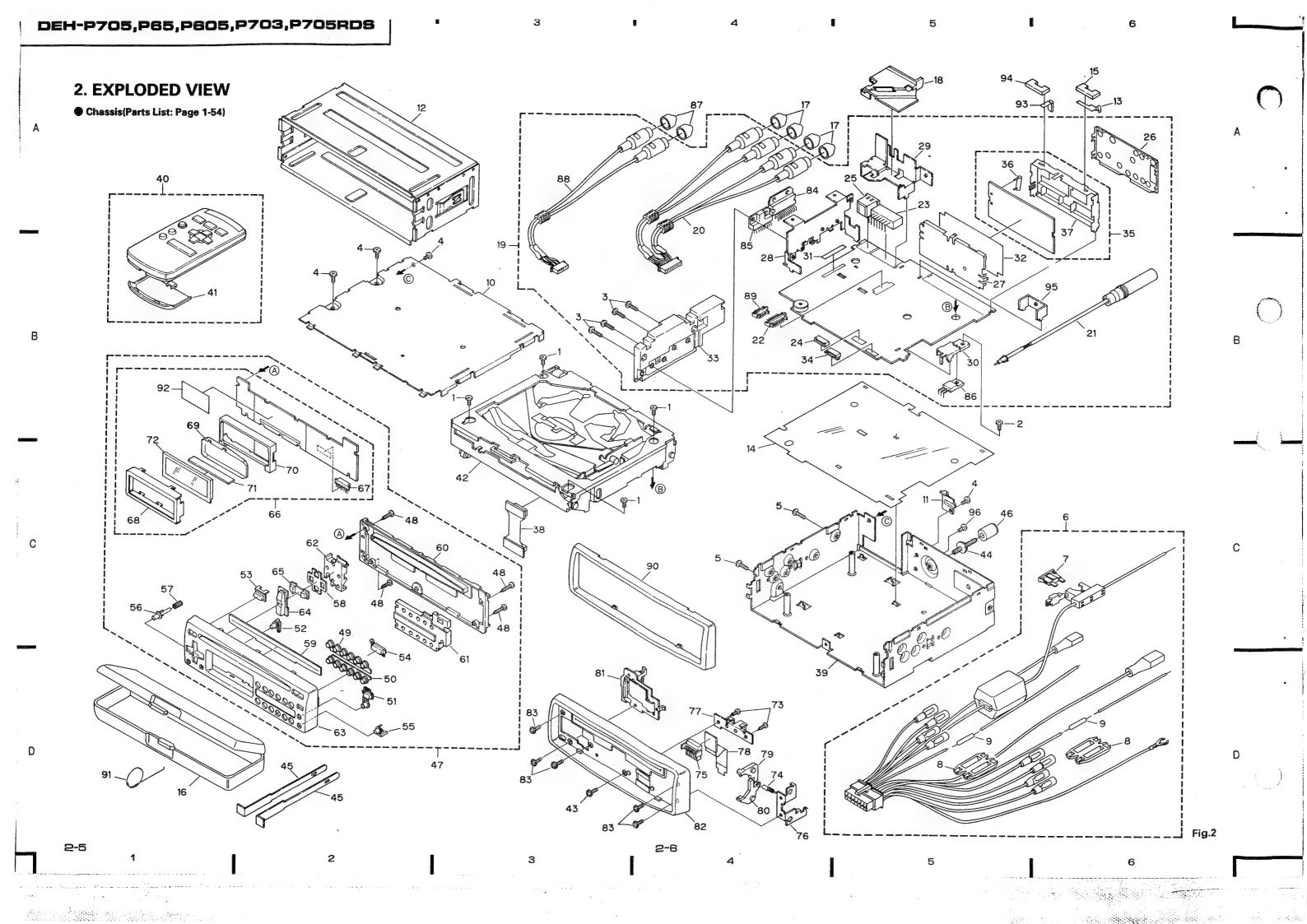
The parts other than those enumerated in the former are identical with those in the latter, to which you are requested to refer, accordingly.

The DEH-P705/UC parts List is given on page 2-3.

			DEH-P705/UC	DEH-P703/ES	DEH-P605/UC	DEH-P65/UC
Mark	No.	Description	Part No.	Part No.	Part No.	Part No.
	1	Carton	CHG2378	CHG2381	CHG2380	CHG2379
	2-1	Owner's Manual	CRD1685	CRD1686	CRD1685	CRD1737
*	2-2	Card	ARY1048	****	ARY1048	*****
*	2-3	Warranty Card	••••	****	••••	CRY1070
-	3	Remote Control Assy	CXA5961	CXA5961	•••••	••••
	4	Accessory Assy	CEA1473	CEA1473	••••	*****
	4-1	Battery	CEX1006	CEX1006	*****	•••••
	4-2	Fastener(Rough)	CNM3629	CNM3629	••••	•••••
	4-3	Fastener(Soft)	CNM3630	CNM3630	••••	••••
*	4-4	Polyethylene Bag	CEG-127	CEG-127	••••	•••••
	10	Contain Box	CHL2378	CHL2381	CHL2380	CHL2379

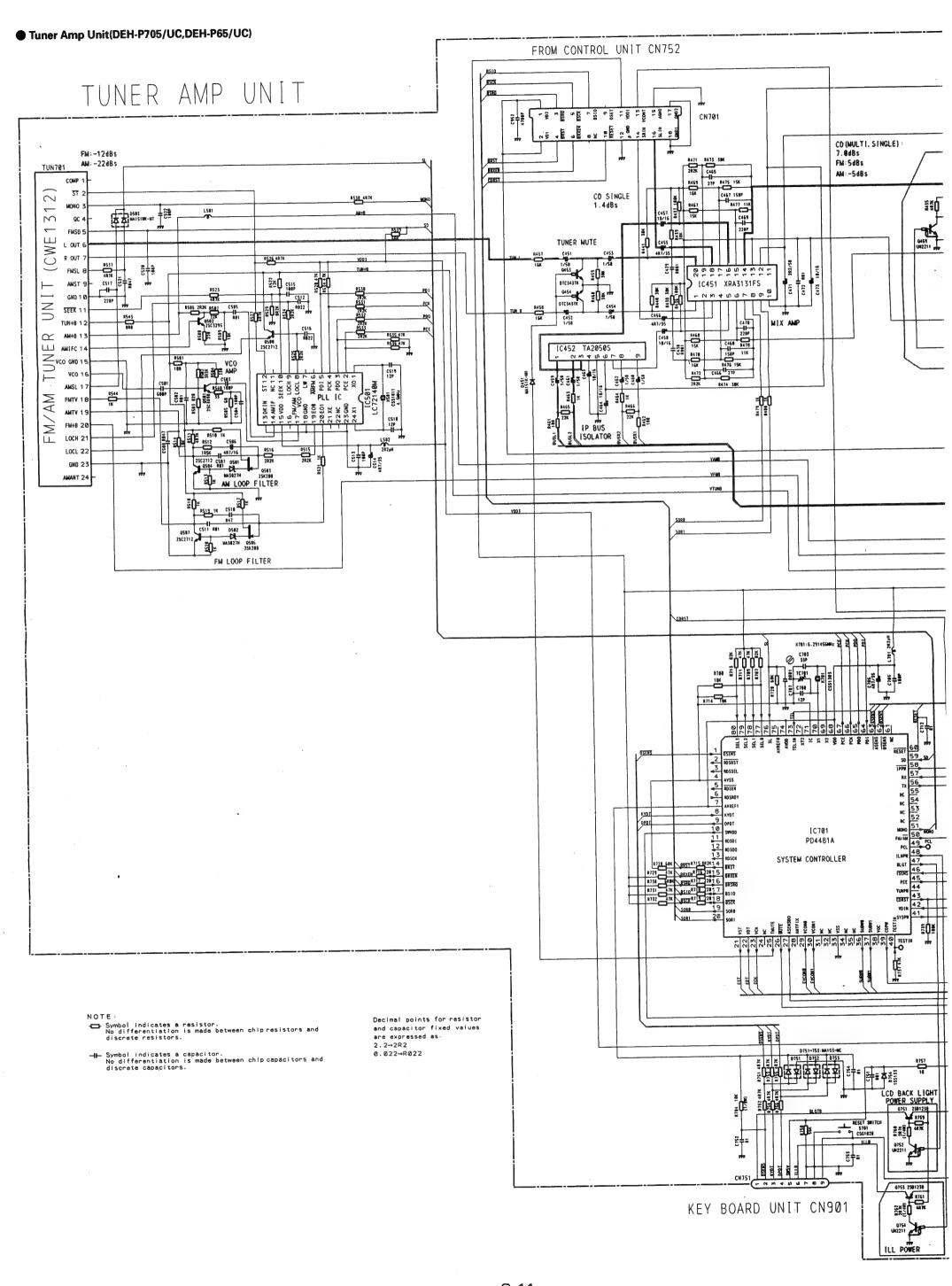
2-1 Owner's Manua

Model	Part No.	Language
DEH-P705RDS/EW	CRD1682	English,French,Italian,German,Dutch
	CRD1683	Swedish, Norwegian, Finnish, Spanish, Portuguese
DEH-P705/UC,DEH-P605/UC	CRD1685	English,French
DEH-P703/ES	CRD1686	English,French,Spanish,Arabic
DEH-P65/UC	CRD1737	English,French

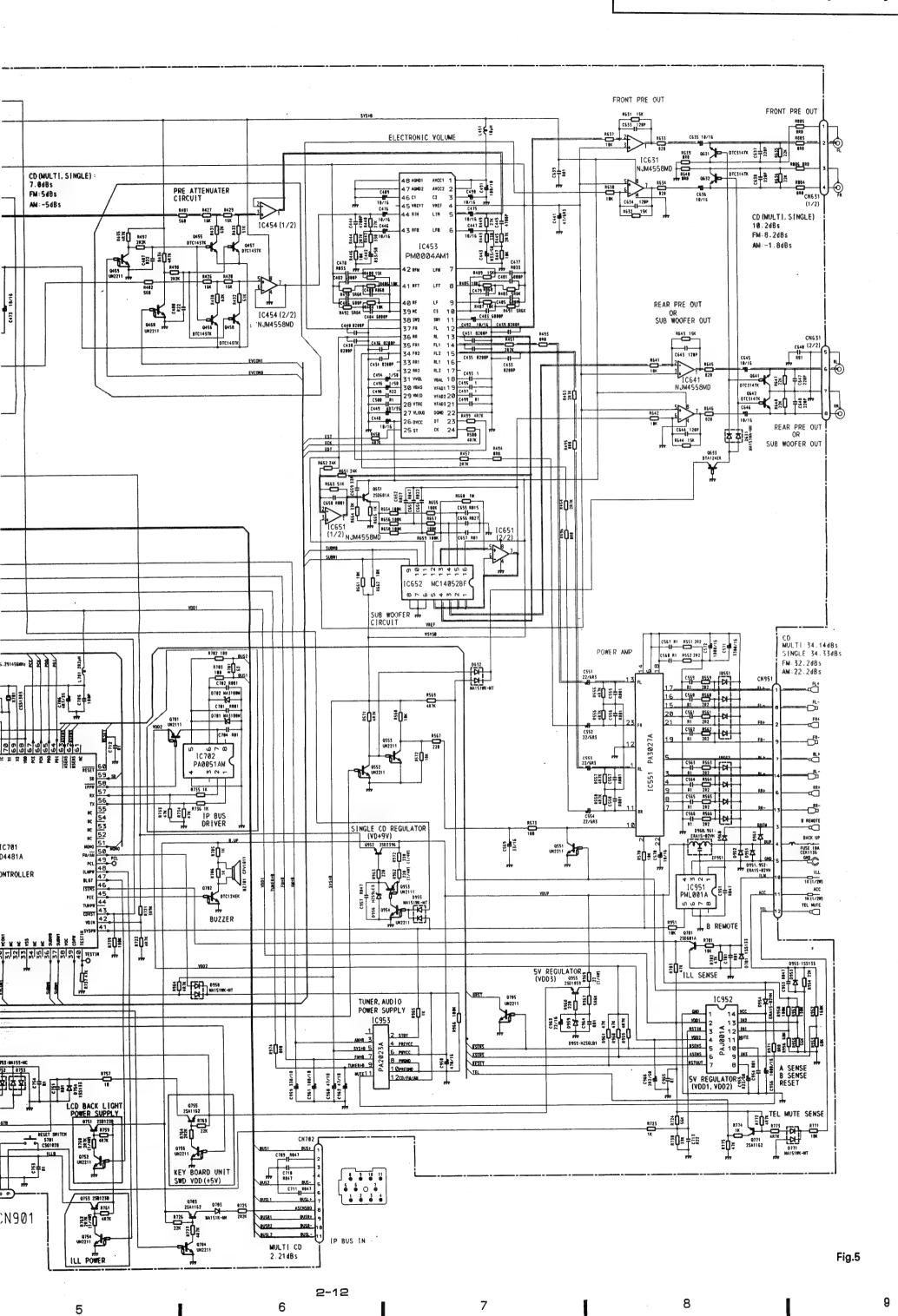


UEM-ト/U5, P65, P605, P/U3, P/U3KU5 3. CIRCUIT DIAGRAM AND PATTERN 3.1 TUNER AMP UNIT(DEH-P705/UC,DEH-P65/UC) → FM/AM TUNER UNIT Q502 **→** CORD Q508 Q506 Q507 Q504 Q503 IC452 IC501 Q781 Q631 IC951 Q632 FRONT PREOUT Q771 REAR PREOUT Q641 Q642 IC551 Q633 Q453 Q454 IB551, 552 IC631 IC651 IC451 Q651 Q456 IC453 Q458 IC652 IC454 IC641 Q455 Q703 Q457 Q704 Q459 Q460 IC953 Q955 Q551 Q705 Q552 Q952 IC952 Q553 Q755 IC701 Q953 Q756 Q954 Q754 Q753 IC702 Q702 TC701 Q751 Q701 Q752 CONTROL UNIT CN752 ← Fig.4 ► KEY BOARD UNIT CN901

2-9

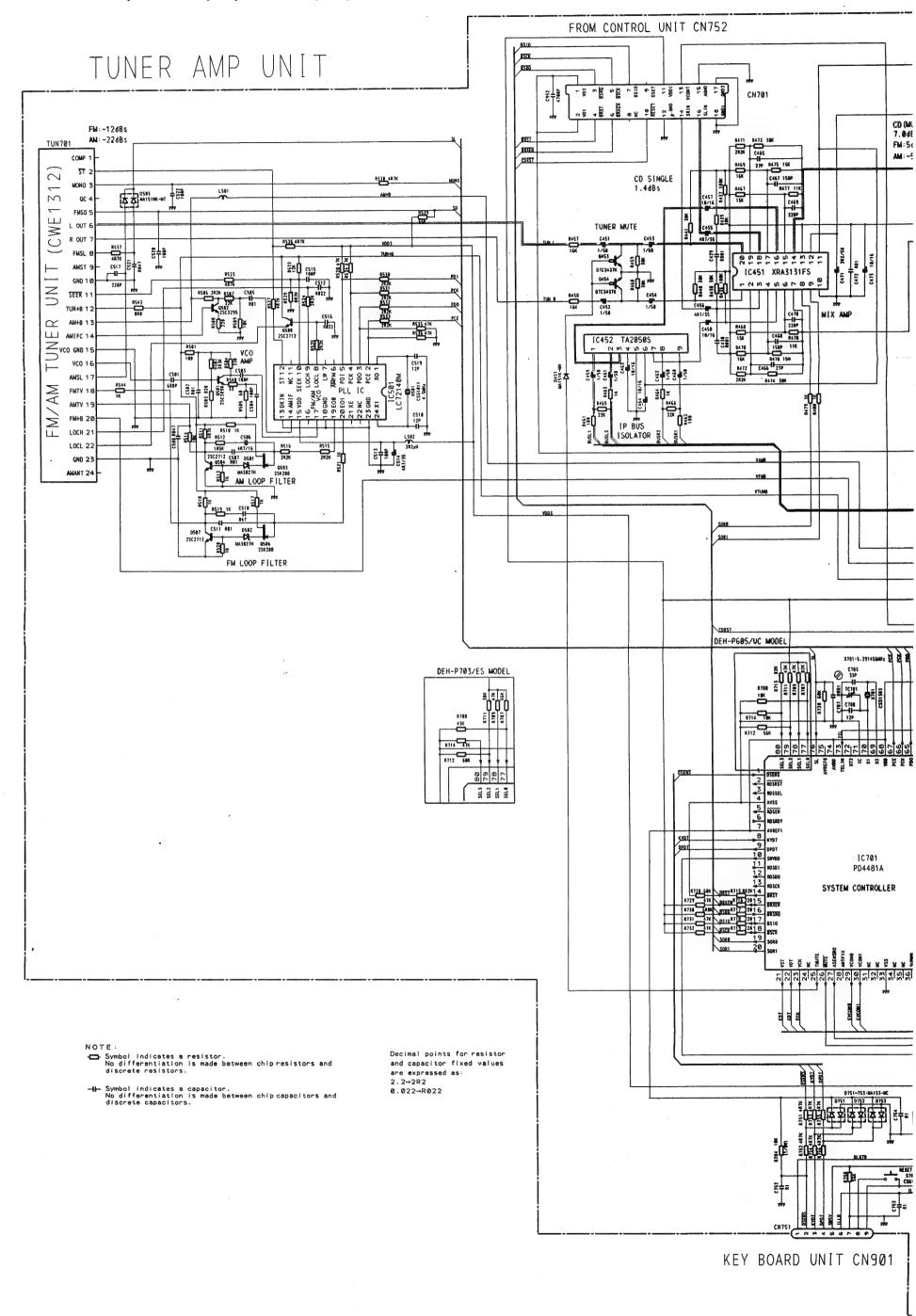


2-11



2-13

3.2 TUNER AMP UNIT(DEH-P703/ES,DEH-P605/UC)



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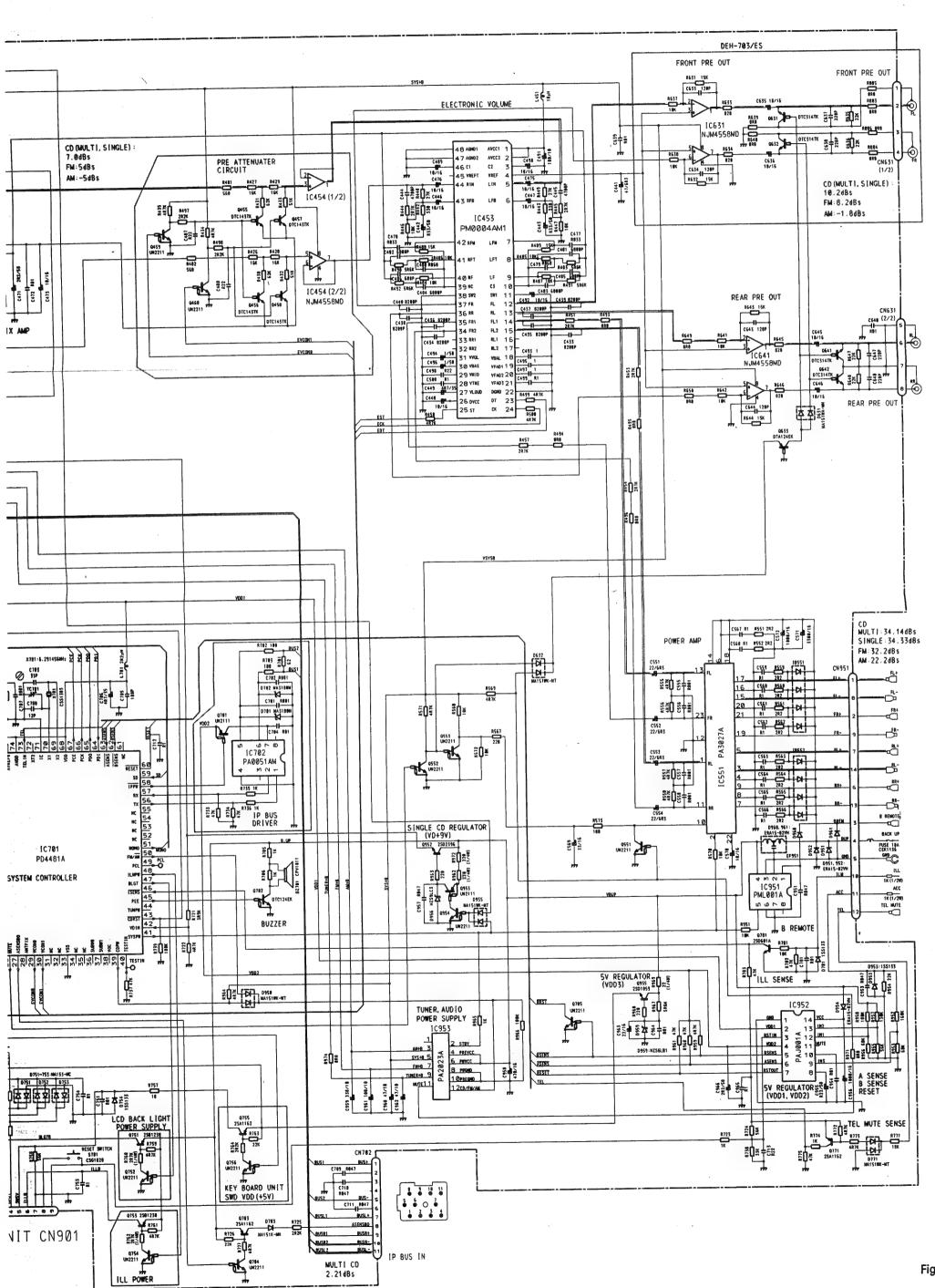
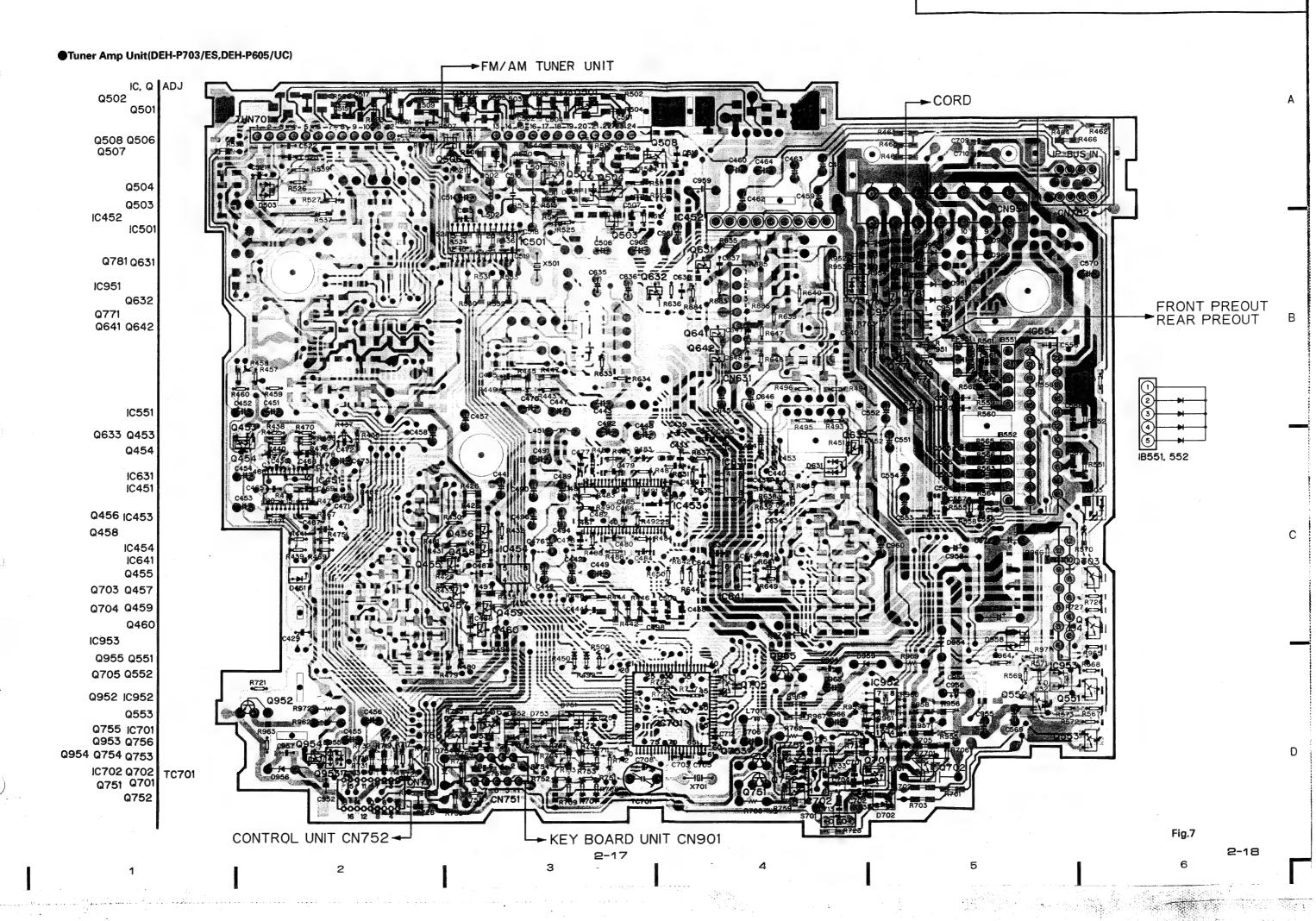


Fig.6

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2-16

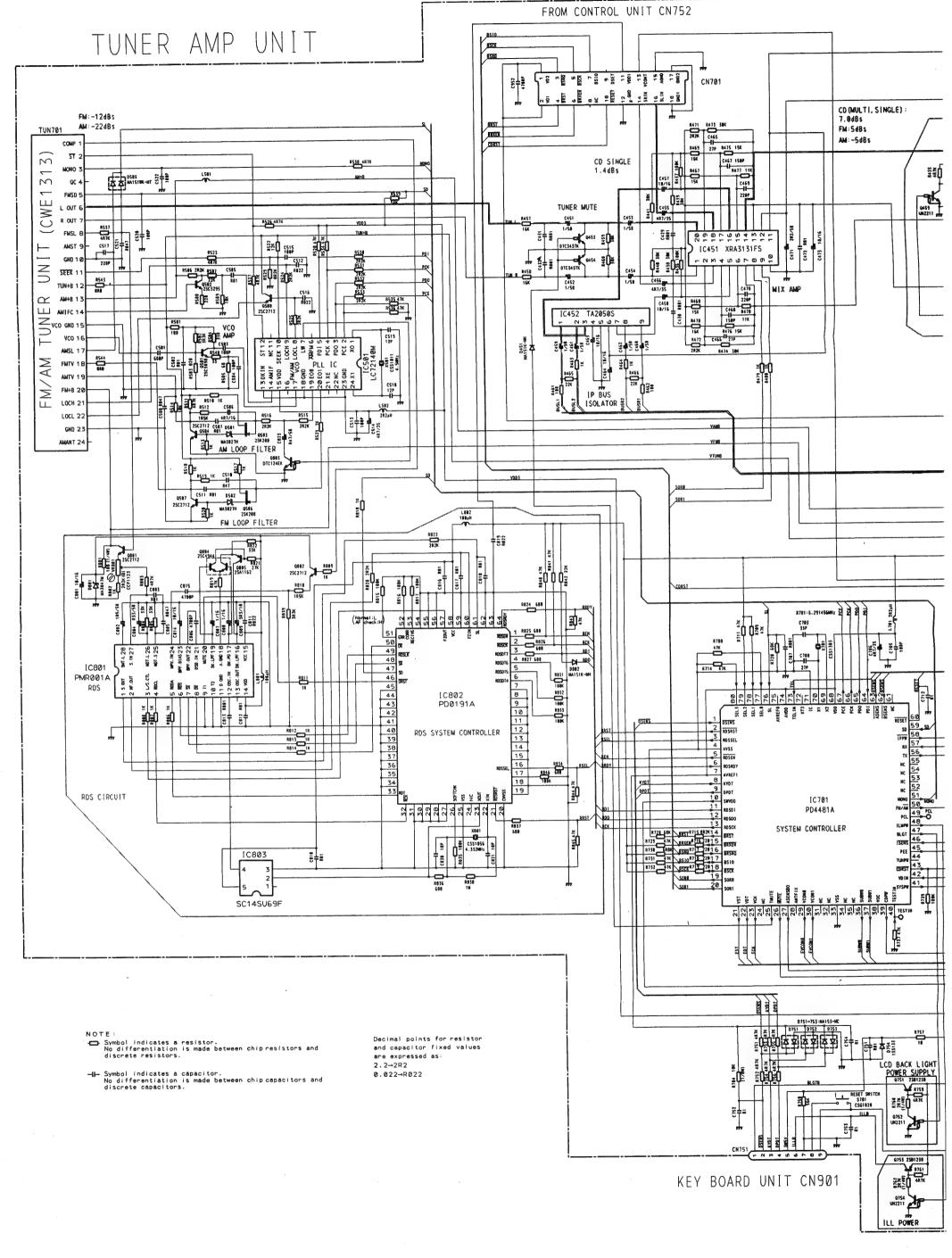
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► KEY BOARD UNIT CN901

2-19

Fig.8



2-21

3

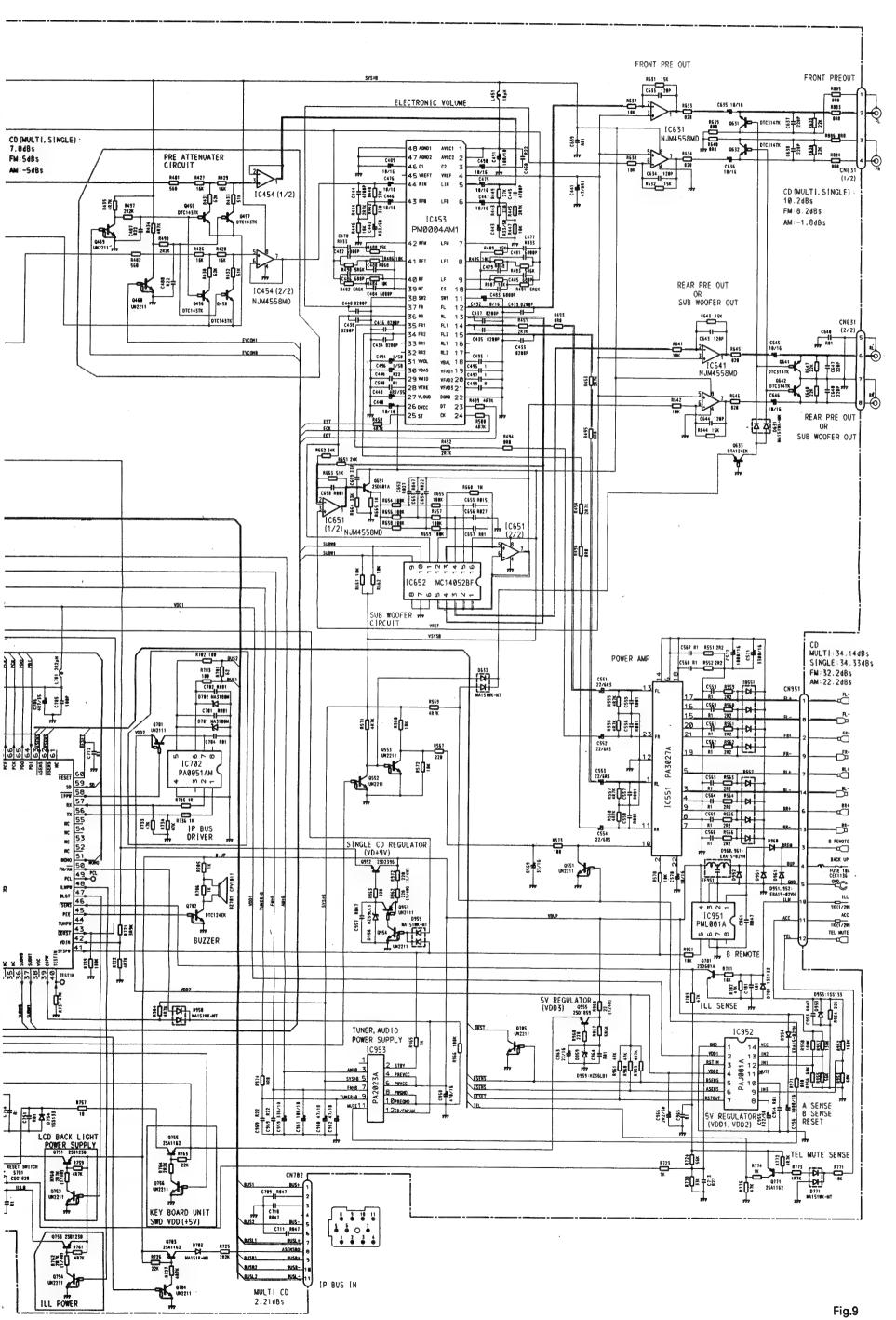


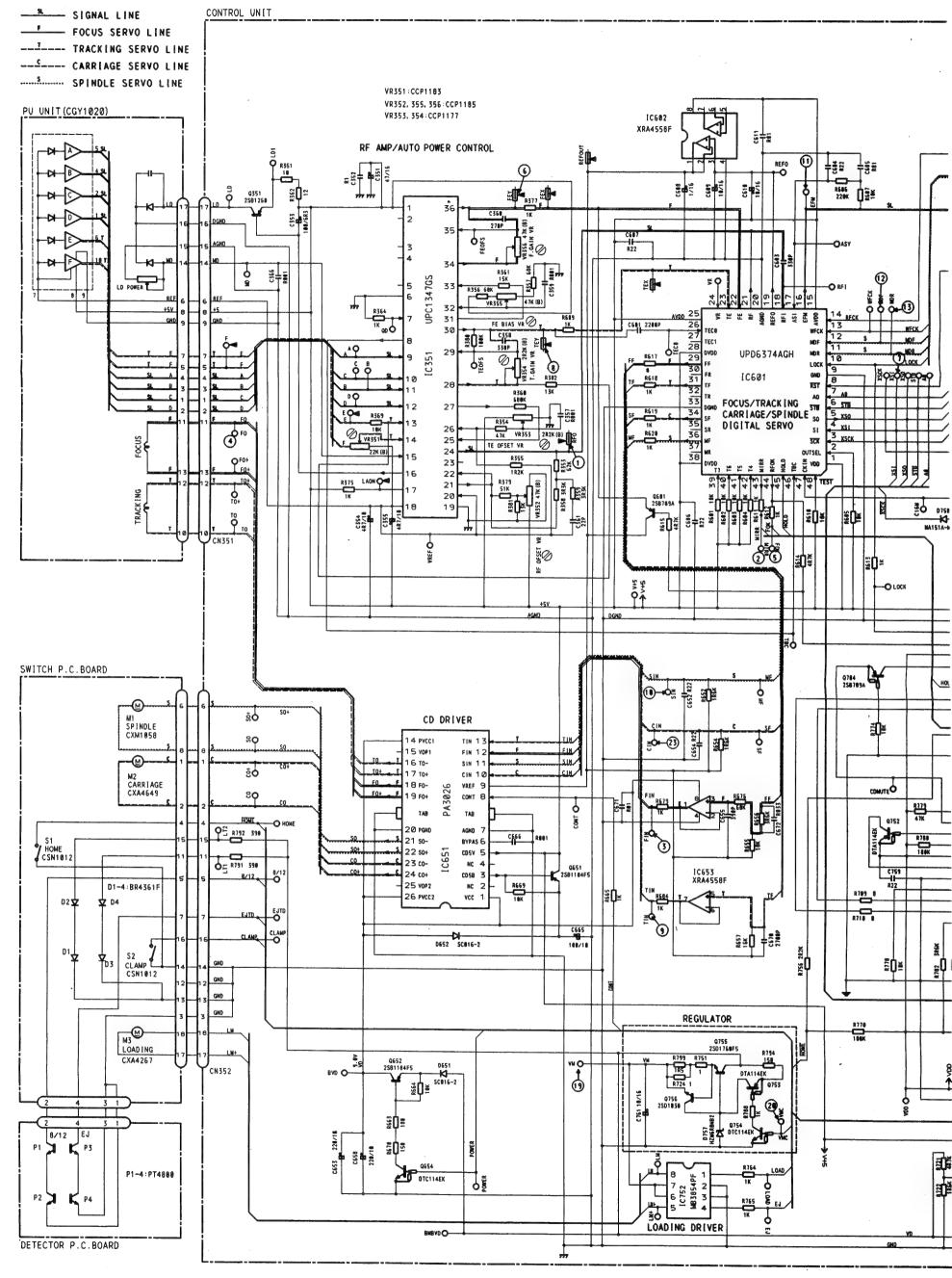
Fig.9

F

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3.4 CD MECHANISM MODULE



SWITCHES:
MISCRLLANEOUS
S1:HOME SWITCH.....ON-OFF

S2:CLAMP SWITCHON-OFF

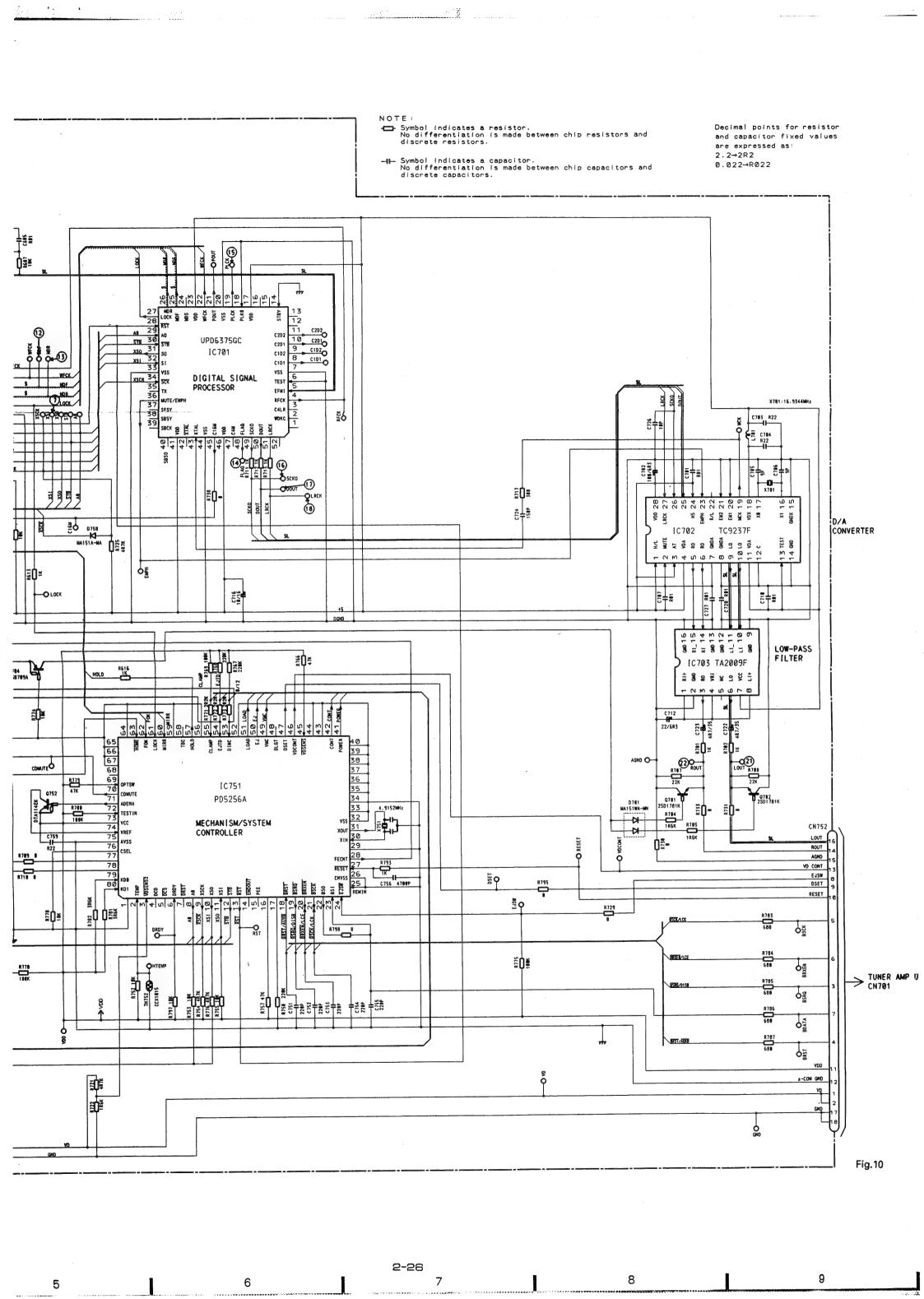
The underlined indicates the switch position.

2

2-24

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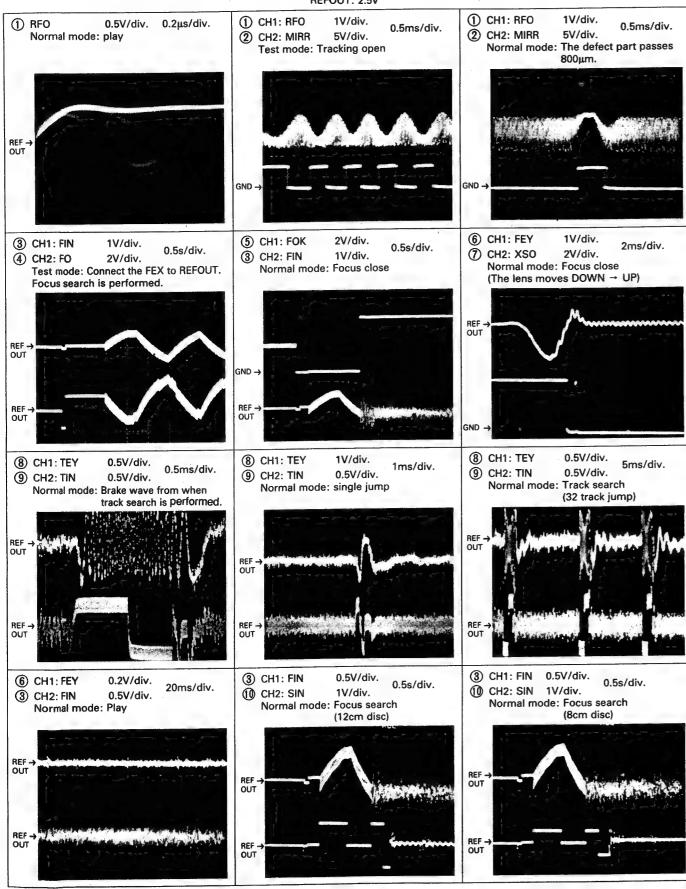
2-25

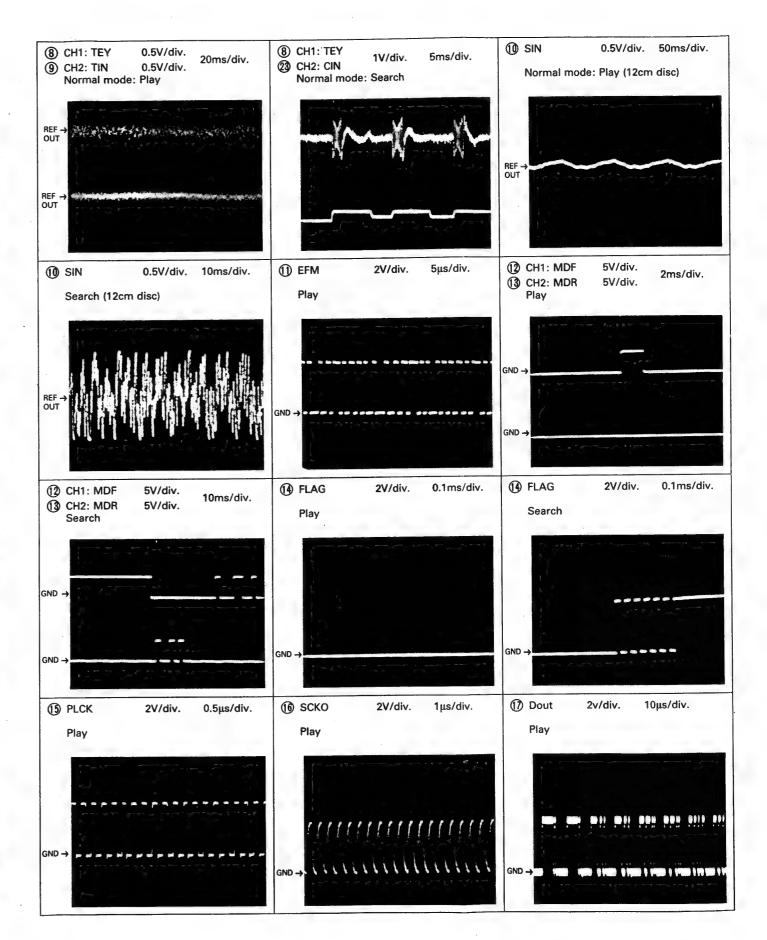


•Wave Forms

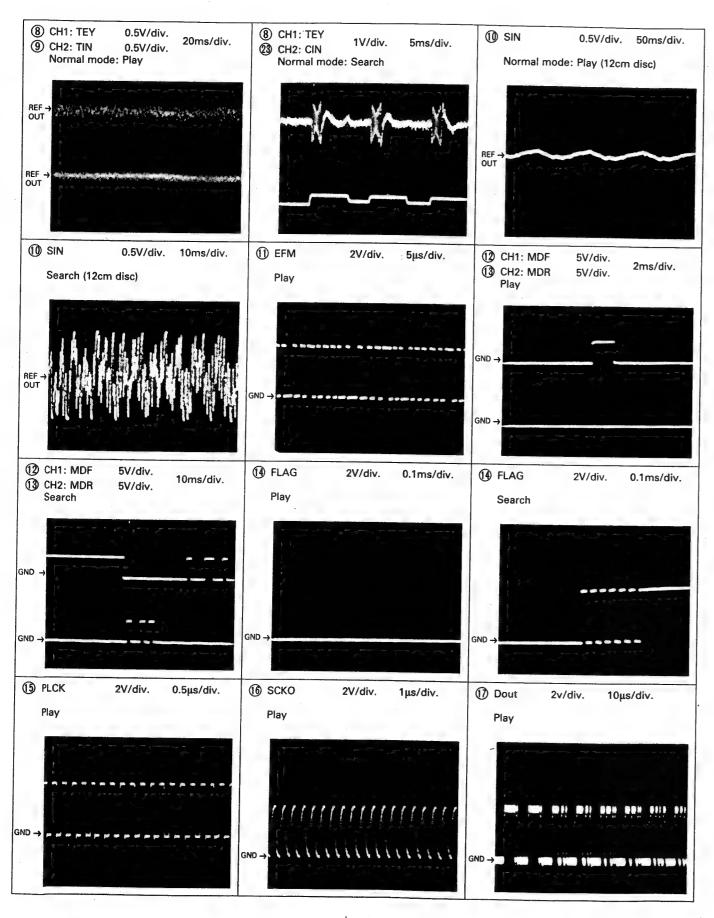
Note: 1. The encircled numbers denote measuring pointes in the circuit diagram.

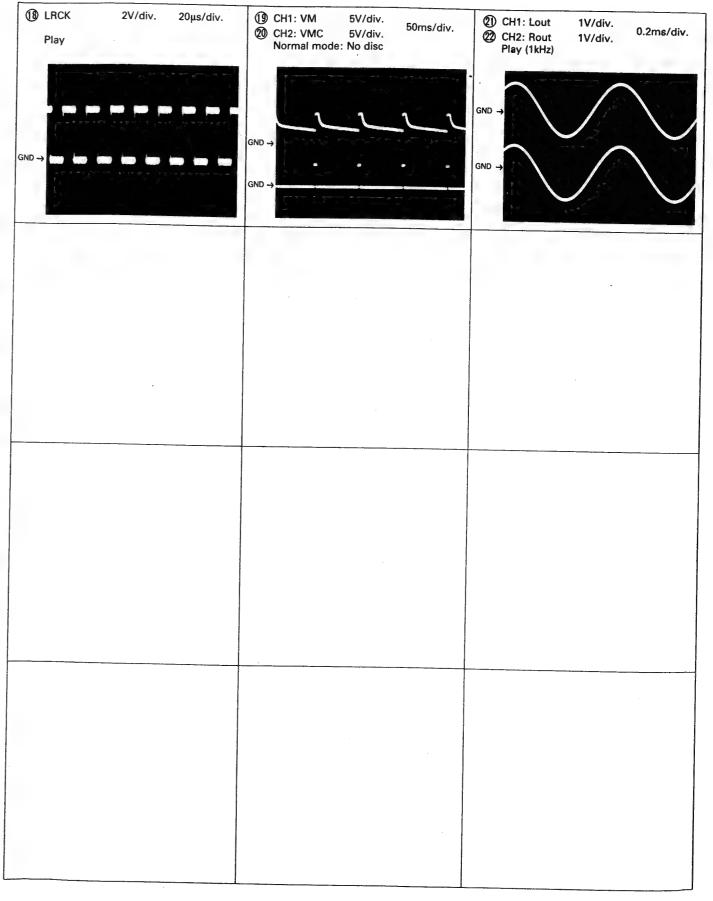
2. Reference voltage REFOUT: 2.5V





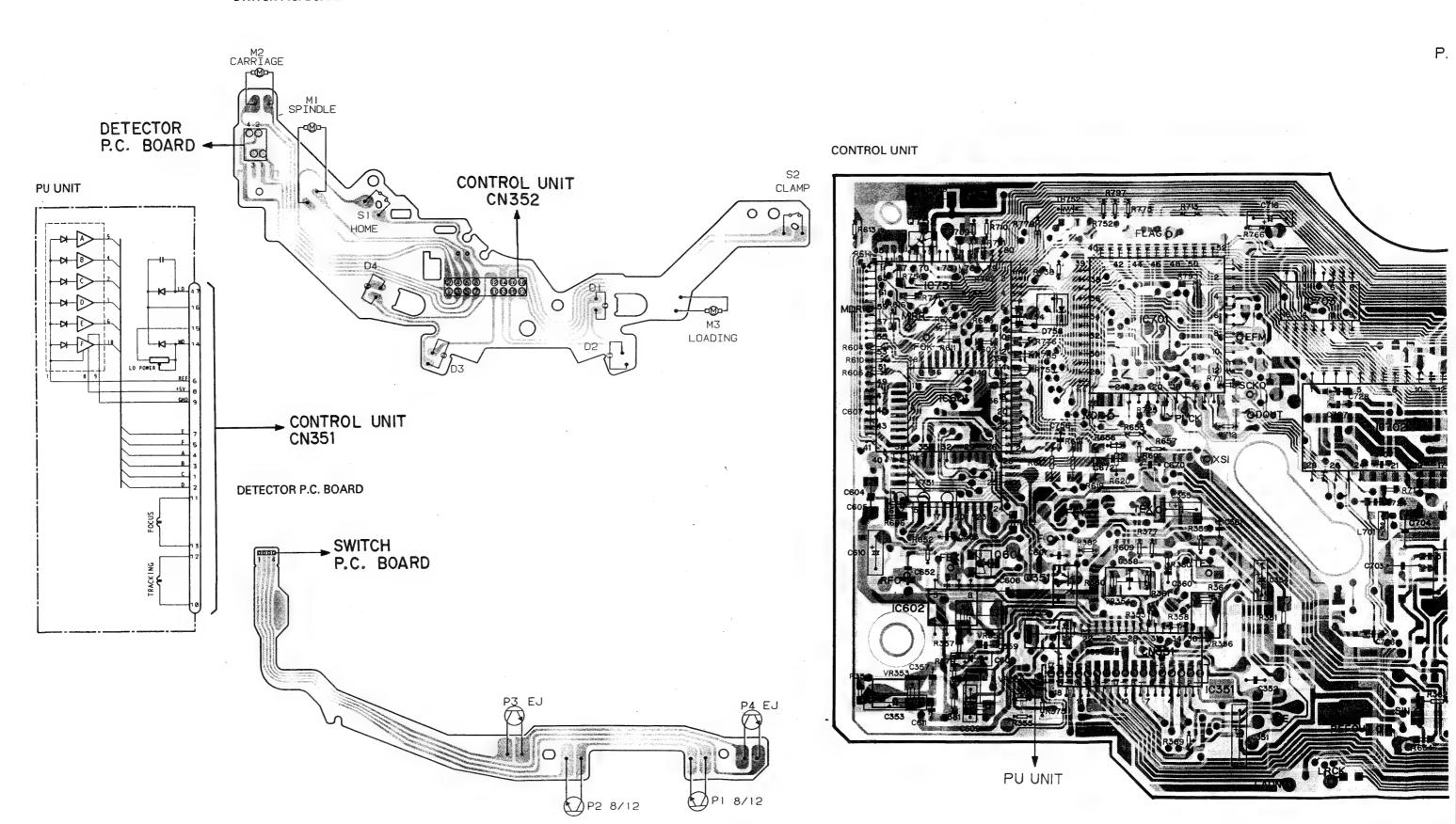
(18) LRCK
Play





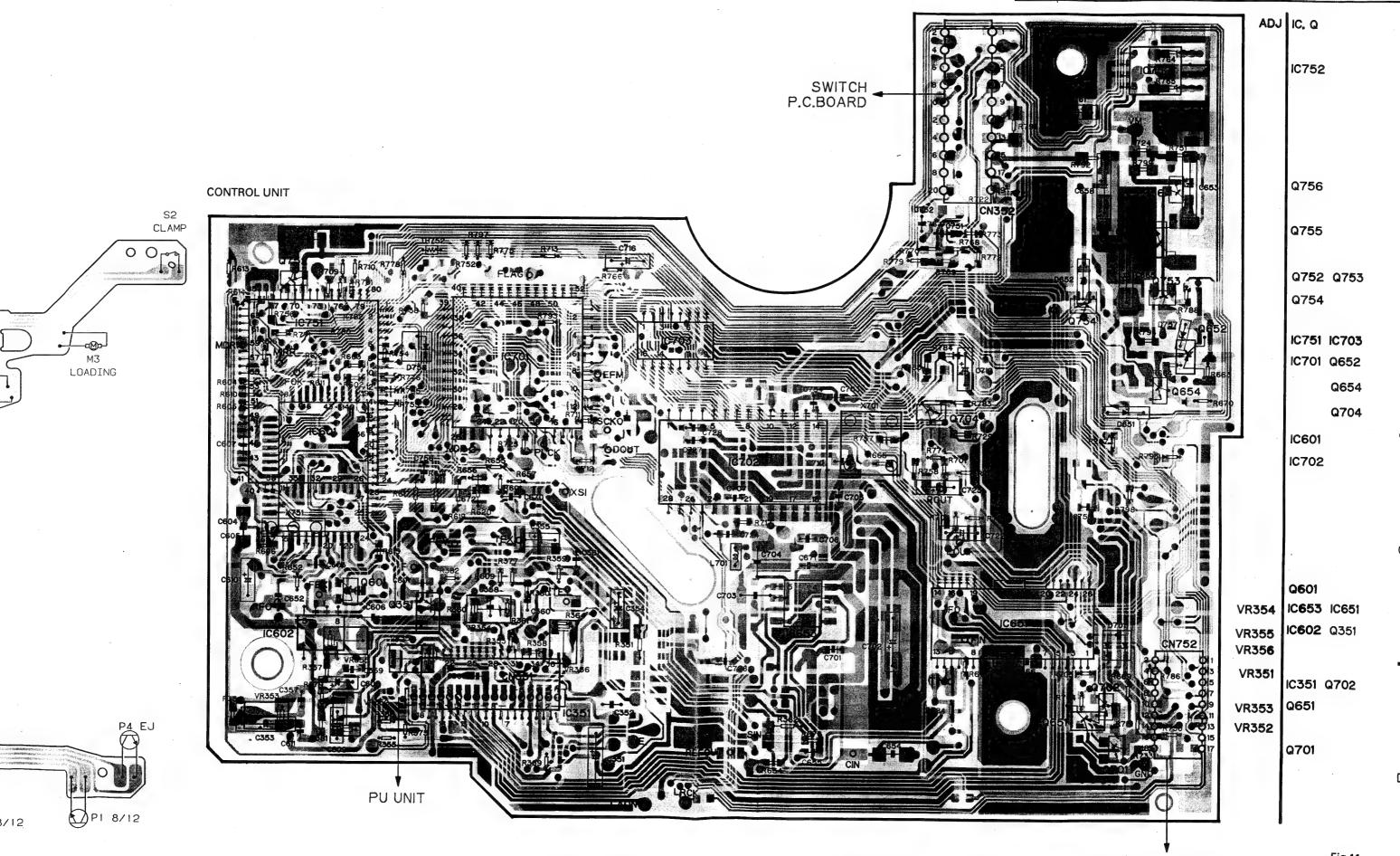
● CD Mechanism Module

SWITCH P.C. BOARD



2-28

DEH-P705,P65,P605,P703,P705RD8



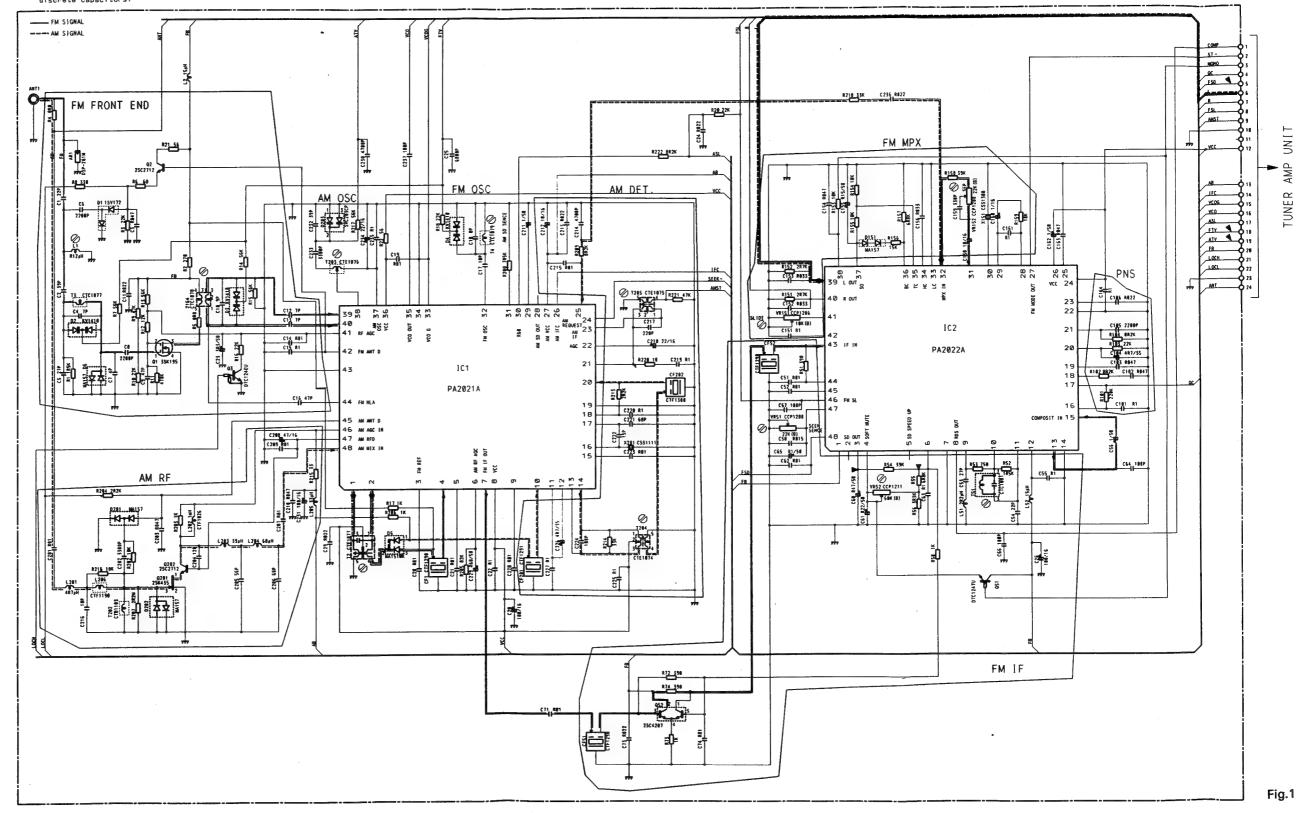
TUNER AMP UNIT

Fig.11

3.6 FM/AM TUNER UNIT(UC ,ES MODEL)

NOTE:
Symbol indicates a resistor.
No differentiation is made between chipresistors and discrete resistors. Decimal points for resistor and capacitor fixed values are expressed as: 2.2→2R2

—II— Symbol indicates a capacitor. No differentiation is made between chip capacitors and discrete capacitors.

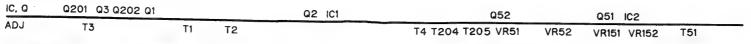


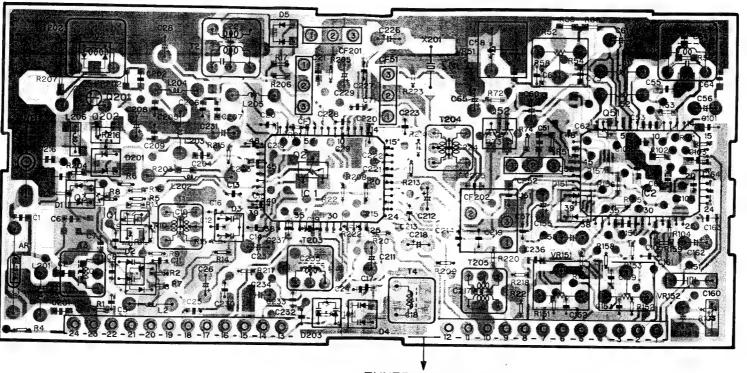
2-37

2-3

2-38

● FM/AM Tuner Unit(UC,ES MODEL)





TUNER AMP UNIT

3.7 FM/AM TUNER UNIT(EW MODEL)

IC, Q	Q201 Q3 Q202 Q1	_		Q2 IC1	Q52	Q53	Q51 IC2		
ADJ	T3	T1	T2		T4 T204 T205 VR51	VR52	VR151 VR152	T51	

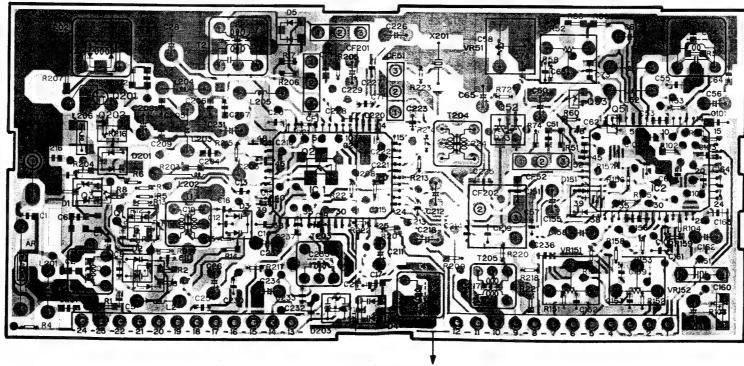


Fig.16

Fig.15

TUNER AMP UNIT

2-20

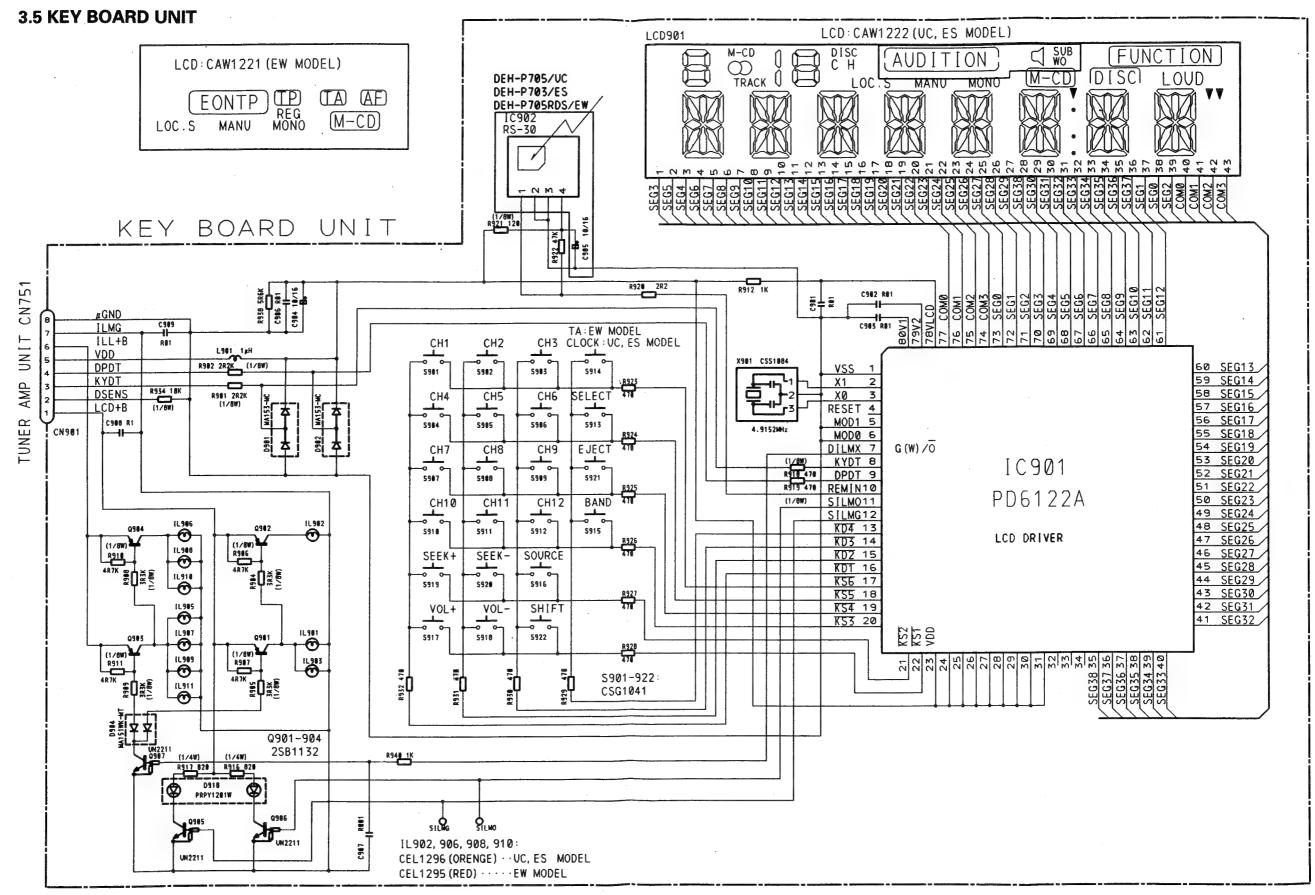
Fig.14

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2-40

11



2-33

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5

2-34

Fig.12

Key Board Unit

Q901 IC902 IC901 Q902 Fig.13 TUNER AMP UNIT CN751

3.6 FM/AM TUNER UNIT(UC ,ES MODEL)

NOTE:
Symbol indicates a resistor.
No differentiation is made between chipresistors and discrete resistors.

Decimal points for resistor and capacitor fixed values are expressed as:

H⊢ Symbol indicates a capacitor.
No differentiation is made between chip capacitors and discrete capacitors.

----- FM SIGNAL ---- AM SIGNAL FM FRONT END FM MPX AM DET. 9 S 7 7 vc. 24 **66466** 30 29 28 B 는 품 김 포 13_C[C1077 C4_7P DZ_KX1410 39 m M M M M 40 ₹85 41 RF AGC IC2 PA2022A #228 18 C219 R1 101 R182 BR2K C182 R84 PA2021A AM RF FM IF Fig.14

2-37

D

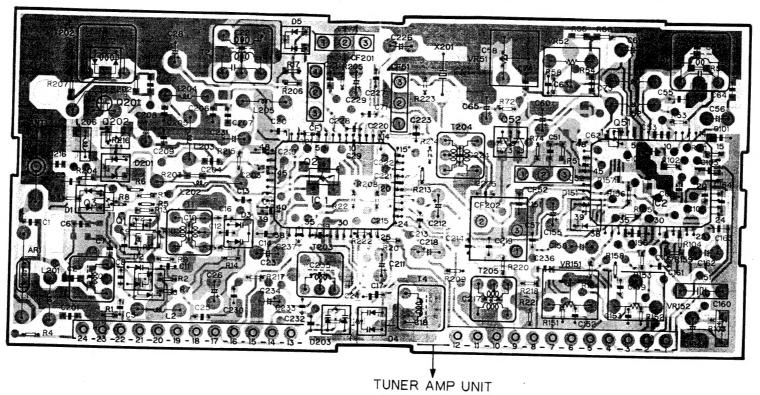
В

2-39

2-38

● FM/AM Tuner Unit(UC,ES MODEL)





3.7 FM/AM TUNER UNIT(EW MODEL)

IC, Q	Q201 Q3 Q202 Q1			Q2 IC1	Q52	Q53	Q51	ICO		
ADJ	Т3	T1	T2		T4 T204 T205 VR51	VR52		VR152	T51	

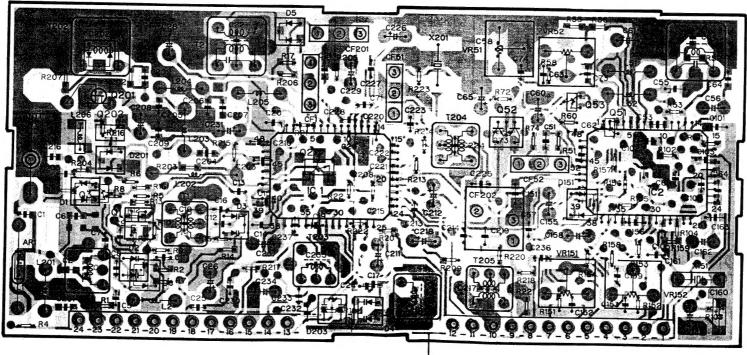


Fig.16

Fig.15

2-39

Fig. 14

TUNER AMP UNIT

● FM/AM Tuner Unit(EW Model)

— Symbol indicates a resistor.

No differentiation is made between chipresistors and discrete resistors. Decimal points for resistor and capacitor fixed values are expressed as: 2.2→2R2 -H- Symbol indicates a capacitor. No differentiation is made between chip capacitors and discrete capacitors.
2.2→2R2
0.022→R022 FM SIGNAL FM FRONT END FM MPX AM DET 102 PA2022A 101 PA2021A FM IF Fig.17

2-41

2-42

В